

21698/c

ENCYCLOPEDIA METROPOLITANA

~~SMEDLEY, Edward~~

Under Wood

ST/43

25/

Image



Digitized by the Internet Archive
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304239

Stack 1701-1850

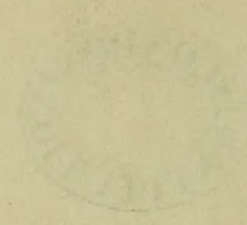


ENCYCLOPÆDIA METROPOLITANA;

133 PLATES TO ACCOMPANY

VOLUME V.

MIXED SCIENCES.



ENCYCLOPEDIA METROPOLITANA

UNIVERSITY OF MICHIGAN

VOLUME 1

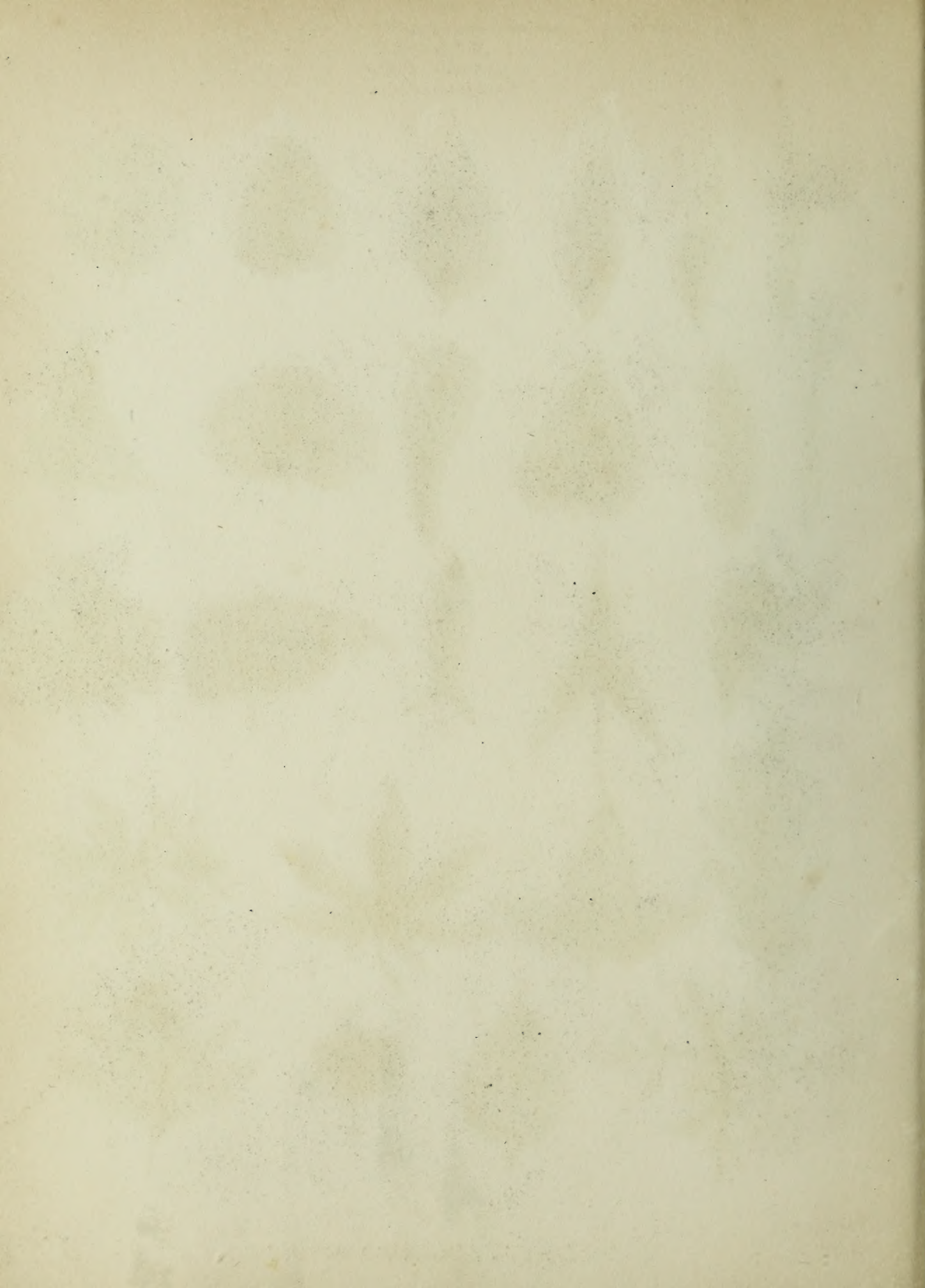
THIRD EDITION



BOTANY.

Simple Leaves.





Compound leaves.

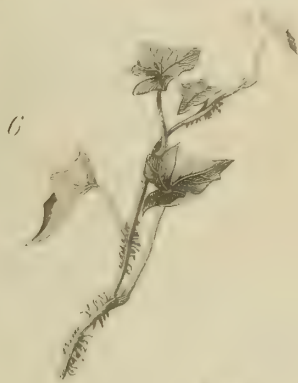
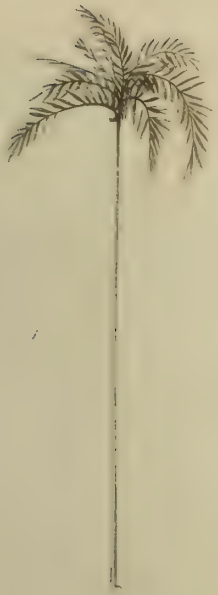






BOTANY.

Stems.



Modes of Inflorescence 2.

Fig 1



Fig 2



Fig 3



Fig 5



Fig 6



Fig 4



Fig 8



Fig 9



Fig 7



Fig 11



Fig 10



Fig 14



Fig 12



Fig 13



Fig 1



Fruit and Seed Vessels.



Linnæus, Cypripedium & Cypripedium



BOTANY.

Linnaeus's Classes & Orders



Linnæan Classes & Orders.



M^r Holmes delin

J. W. Lowry sculp





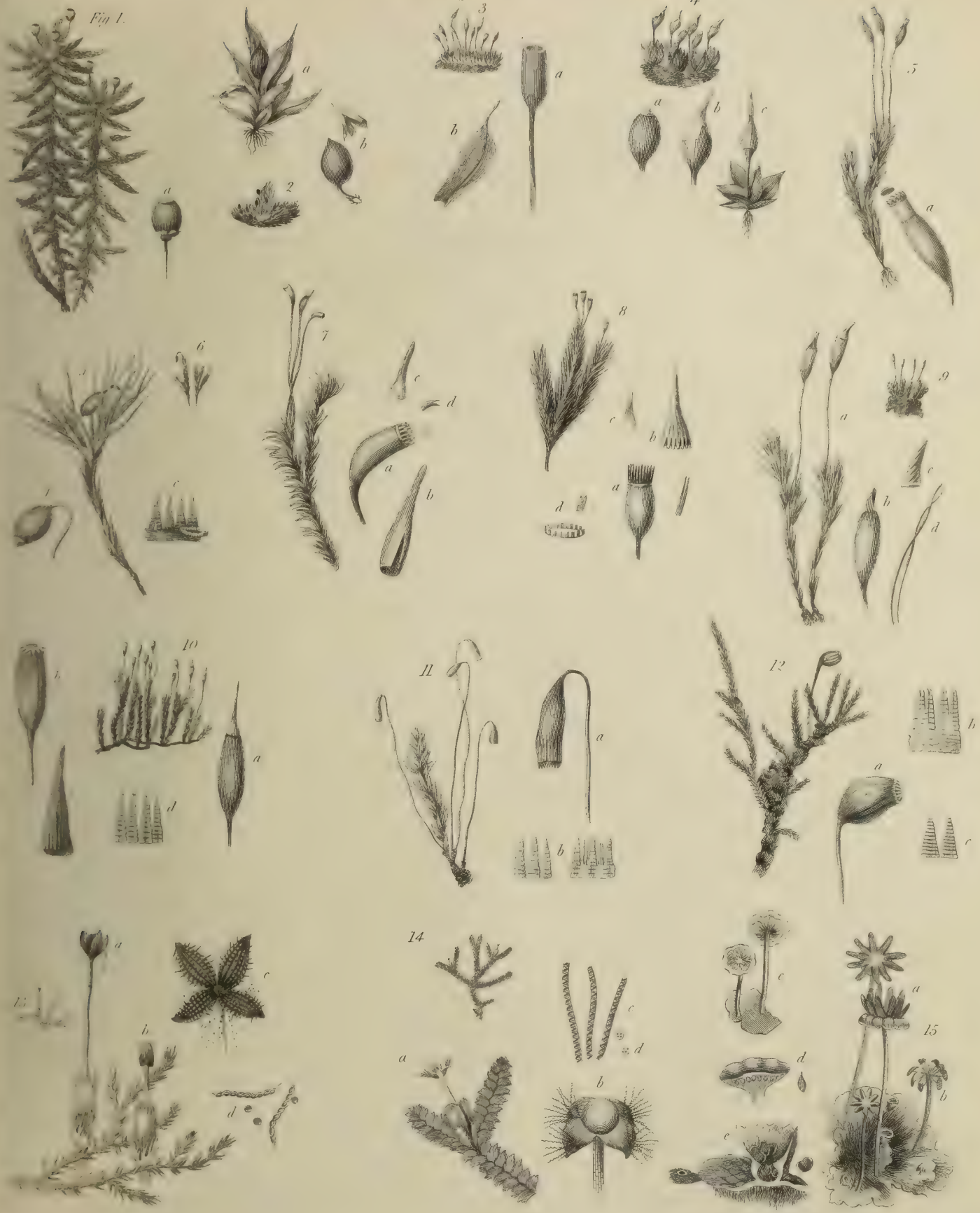
BOTANY.
Cryptogamia?

Fig. 1.



Wm. Linn

BOTANY.
Cryptogamia?



J.W. Lowry sculp.

BOTANY.
Conferva Fucus &c.

Fig. 1.



Lichens.



Fungi.





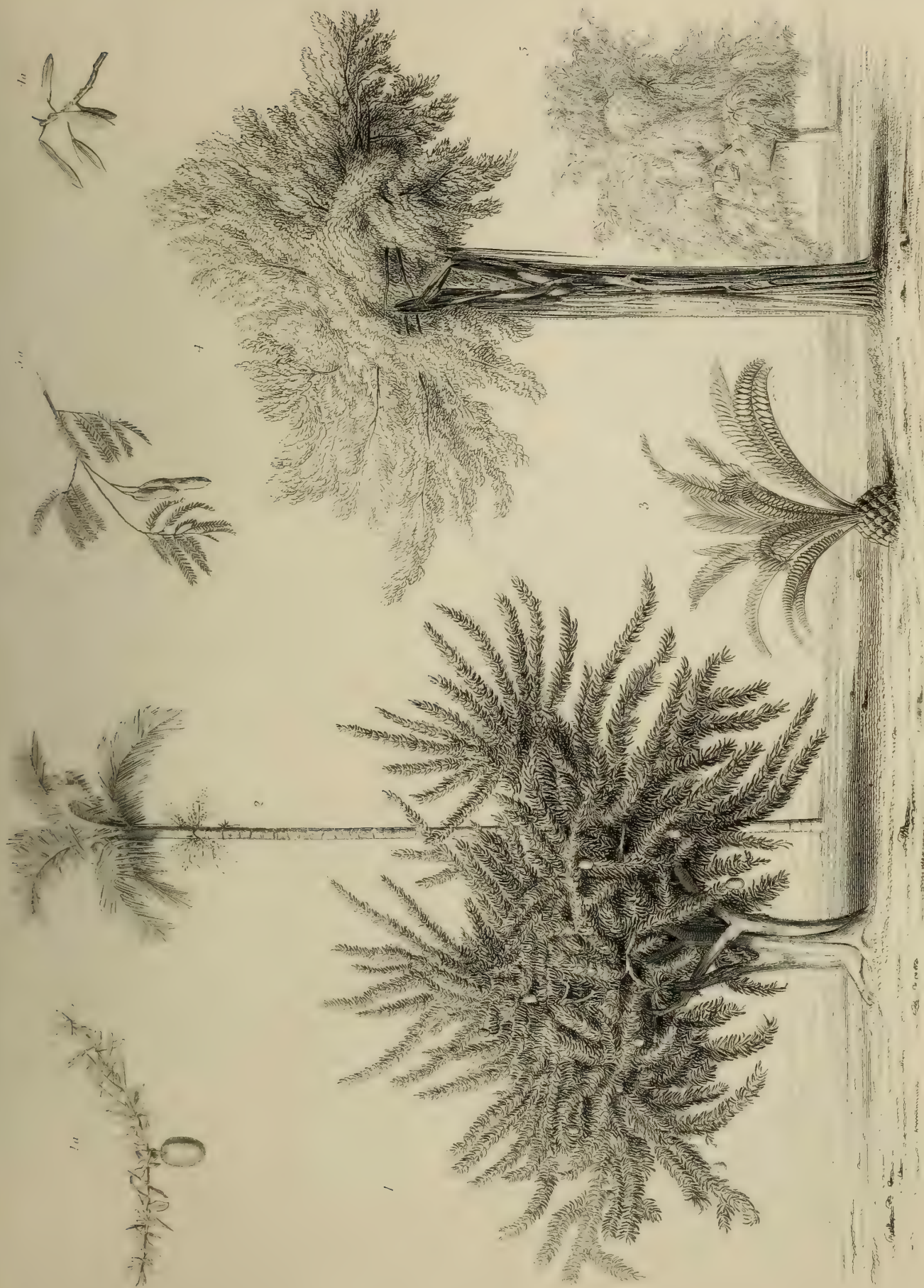
Cocca. Nut Palm.

Yucca aloifolia.

Banana. Cererus.

Fan Palm.

Castor Oil Plant.



1. Calabash Tree. 2. Batak Nut-Palm. 3. Zamia Eliptica. 4. Ficus Virens. 5. Tamarind Tree.

A V E S .

Plate 1.

Order. Accipitres.

Family. Diurnæ.

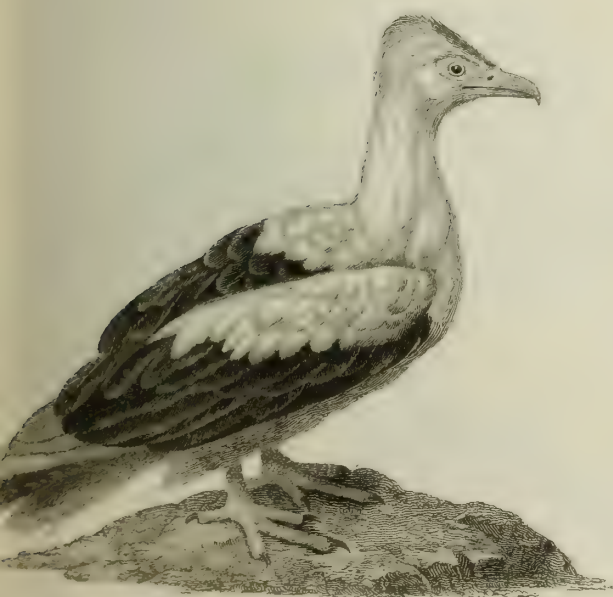
Genera. Vultur. Sarcoramphus. Percnopterus & Gypaëtos .



Vultur Monachus. Monk Vulture.



Sarcoramphus Papa. King Vulture.



Percnopterus Aegyptiacus. Egyptian Vulture.



Gypaetos Barbatus. Alpine Gypaete.

AVES

Order Accipitres

Family Diurnæ

Genera Falco & Gyrogeranus



F. Communis. Common Falcon



F. Ossifragus. Sea Eagle



F. Pennatus. Booted Buzzard



G. Capensis. Snake Eater

AVES.

Order, Accipitres.

Genus, Strix.

Family, Nocturnæ.



Str. Aluco. Brown Owl.



Str. Otus. Long Eared Owl



Str. Flammæa. White Owl.

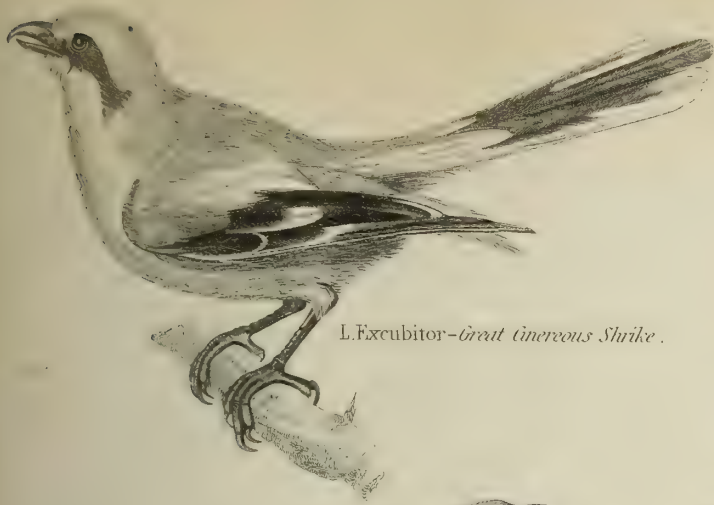


Str. Nyctea. Snowy Owl.

Order. Passeres.

Family. Dentiostres.

Genera. Lanius. Muscicapa. Tanagra. Turdus. Rupicola. Eurylaimus.



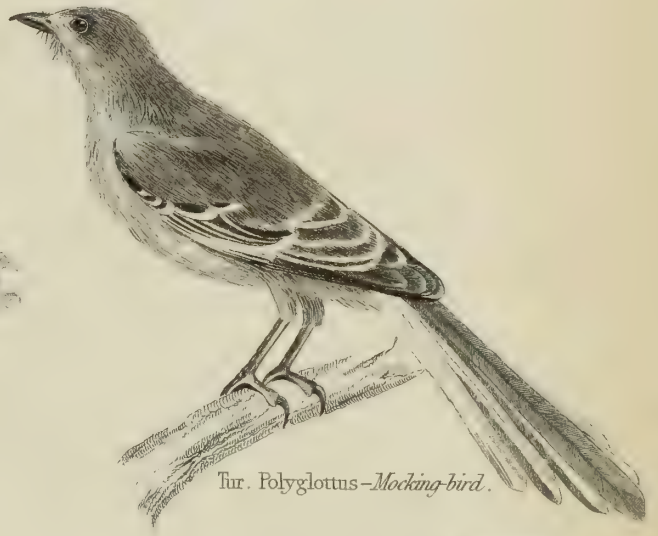
L. Excubitor - Great Cincereous Shrike.



M. Grisola - Spotted Flycatcher.



Tan. Vittata - Banded Tanager.



Tur. Polyglottus - Mockingbird.



R. Aurantia - Orange Rock Cuckoo.



E. Javanicus.



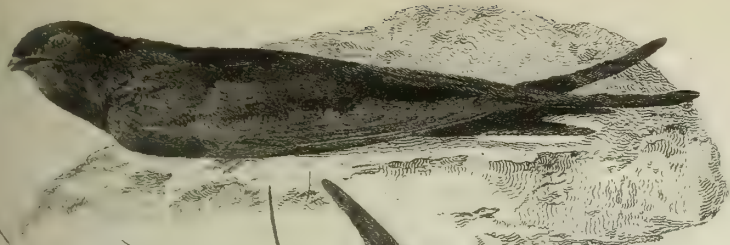
A V E S .

Order. Passeres

Genera Hirundo & Caprimulgus.

Family. Fissirostres

Plate 6.



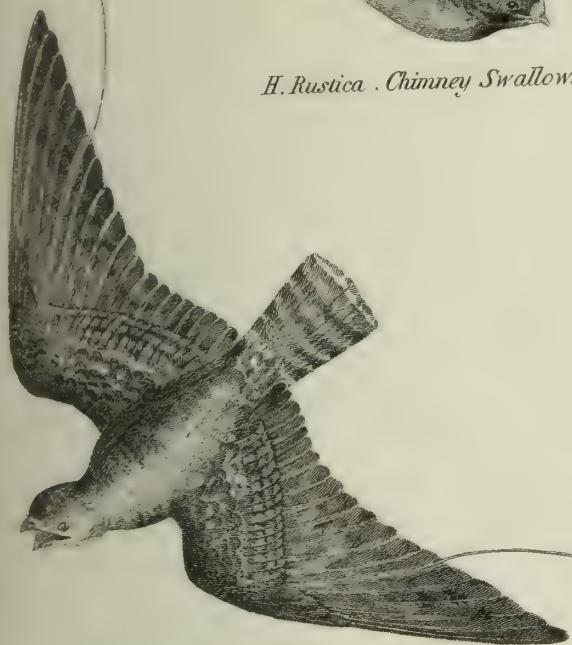
H. Apus. Swift.



H. Urbica. House Martin.



H. Rustica. Chimney Swallow.



C. Macrodipterus. Leona Goat Sucker.



H. Esculenta. Esulent Swallow.



C. Europæus. European Goat Sucker.

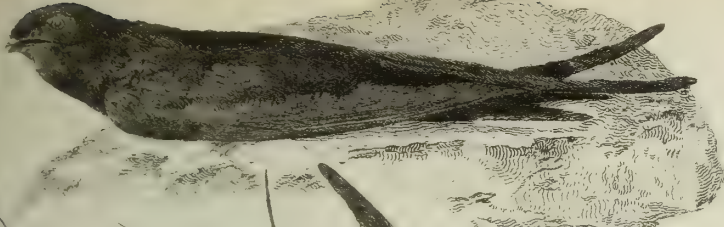
A V E S .

Order. Passeres

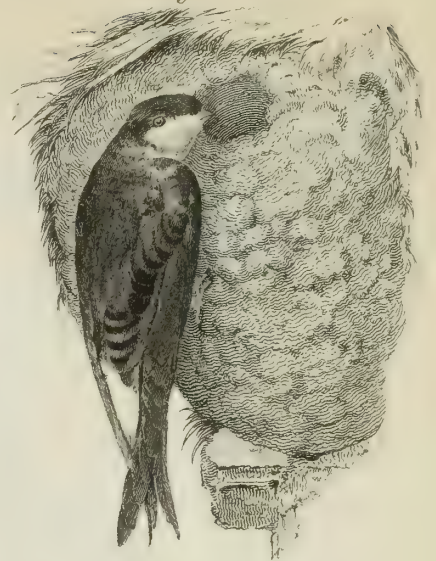
Genera Hirundo & Caprimulgus.

Family. Fissirostres

Plate 6.



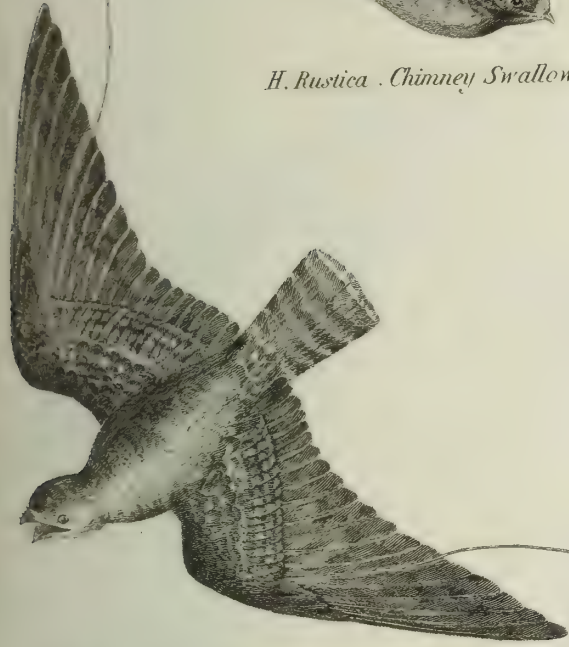
H. Apus. Swift.



H. Urbica. House Martin.



H. Rustica. Chimney Swallow.



C. Macrodipterus. Leona Goat Sucker.



H. Esculenta. Esulent Swallow.



C. Europæus. European Goat Sucker.

Delin.

J.W. Lowry Sculp.



Passeres

Family. Temnirostris_Syndactylæ.

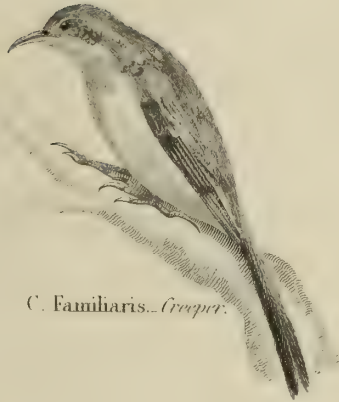
Genera. Sitta, Xenops, Certhia, Tichodroma, Trochilus, Upupa, Merops, Alcedo.



S. Europæa... Nuthatch.



X. Rutilans.



C. Familiaris... Creeper.



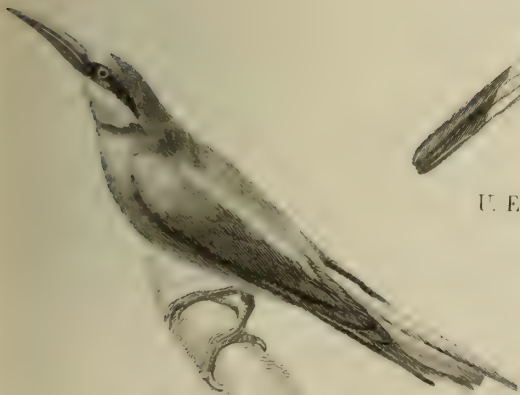
Tide' Murara... Wall Creeper.



Troch^s Delalandi... Delalande's Humming Bird.



U. Epops... Hoopoe.



M. Apiaster... Bee-eater.



A. Ispida... Kingfisher.

Genera. Galbula, Picus, Yux, Picumnus.

Family. Zygodactylæ.



G. Macroura. Long-tailed Jacamar.



G. Grandis. Great Jacamar.



P. Martius.
Great Black Woodpecker.



P. Tridactylus. Southern three-toed Woodpecker.



Y. Torquilla. Wryneck.



Picus Minutissimus.

no. delin!



AVES.

Family Zygodactyla.

Genus Psittacus.



P. Aracanga. *Scarlet Macaw.*



P. Solstitialis. *Angola Yellow Parakeet.*



P. Erythacus. *Grey Parrot.*



P. Pileatus. *Bonneted Psittacule.*



P. Goliath. *Grey Small-tongued Parrot.*



P. Nasicus. *Long-nosed Cockatoo.*

Genera. Gallus, Phasianus, Tragopan, Cryptonyx.

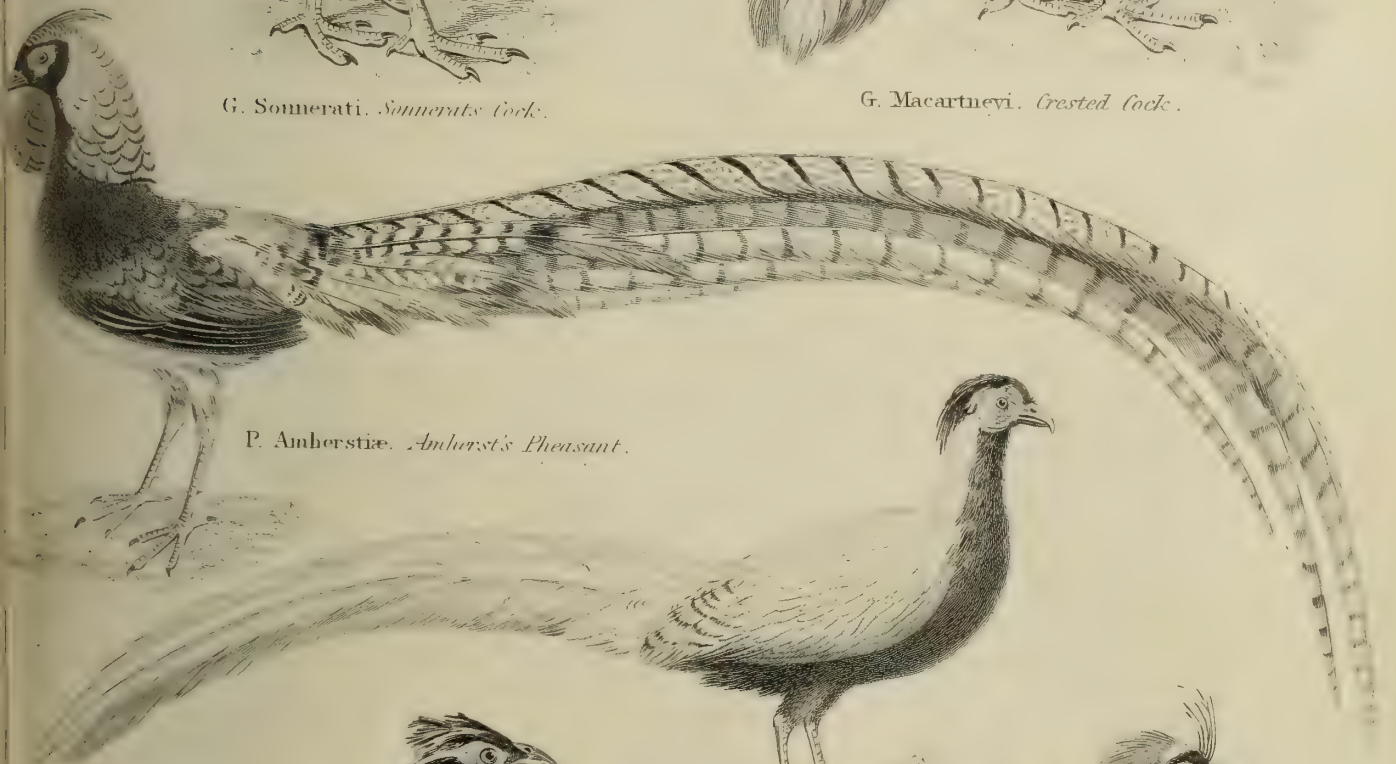
Family Gallidæ.



G. Somerati. *Sommerats cock.*



G. Macartneyi. *Crested cock.*



P. Amberstiae. *Amberst's Pheasant.*



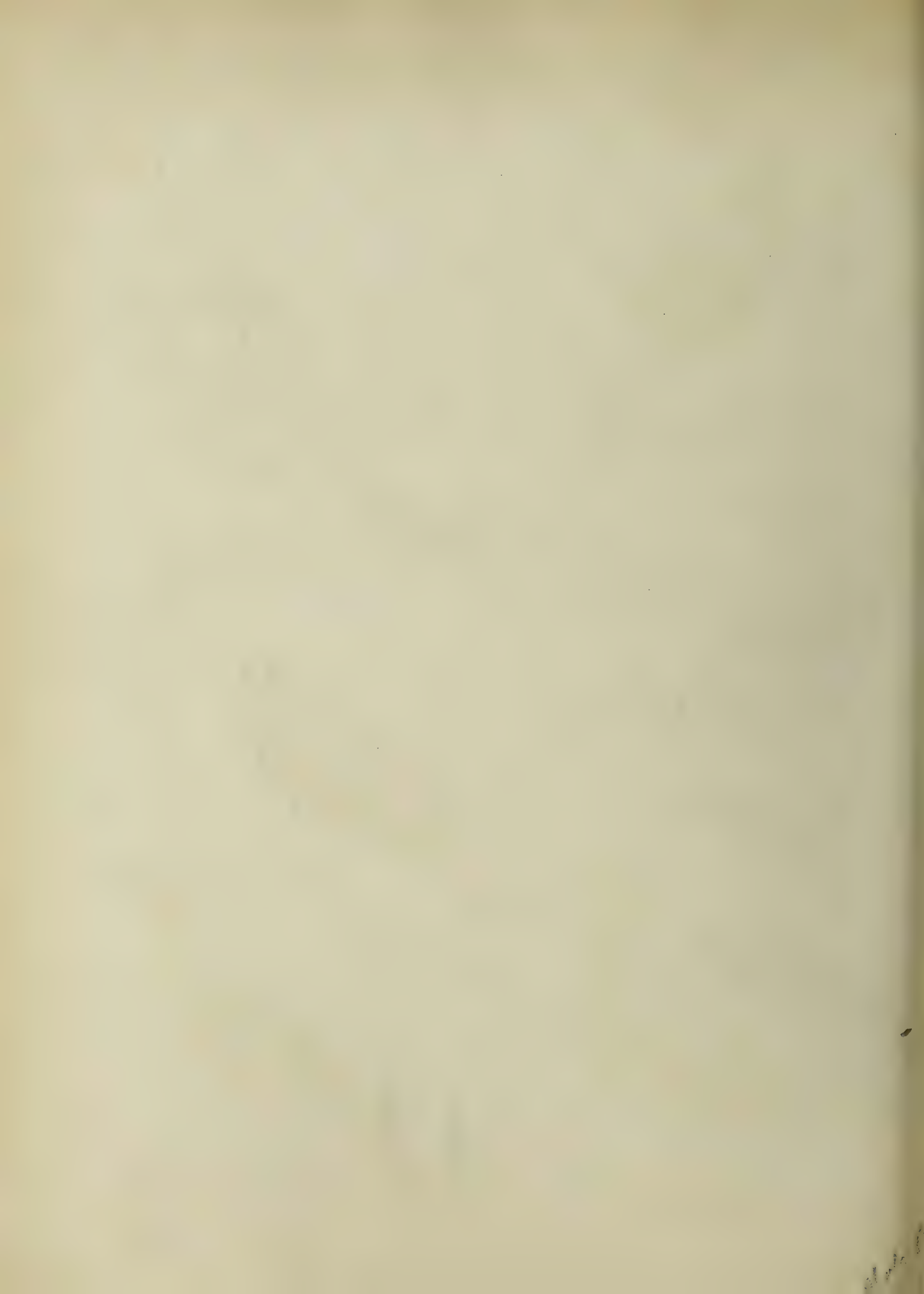
P. Nycthemerus. *Silver Pheasant.*



T. Satyrus. *Nepaul Horned Pheasant.*



C. Coronatus



AVES.

Family. Columbidae.

Genera. Columba. Vinago.



C. Carunculata. Carunculated Pigeon.



C. Coronata. Crowned Pigeon.



C. Cænas. Stock-dove.



C. Leucocephala. White-headed Pigeon.



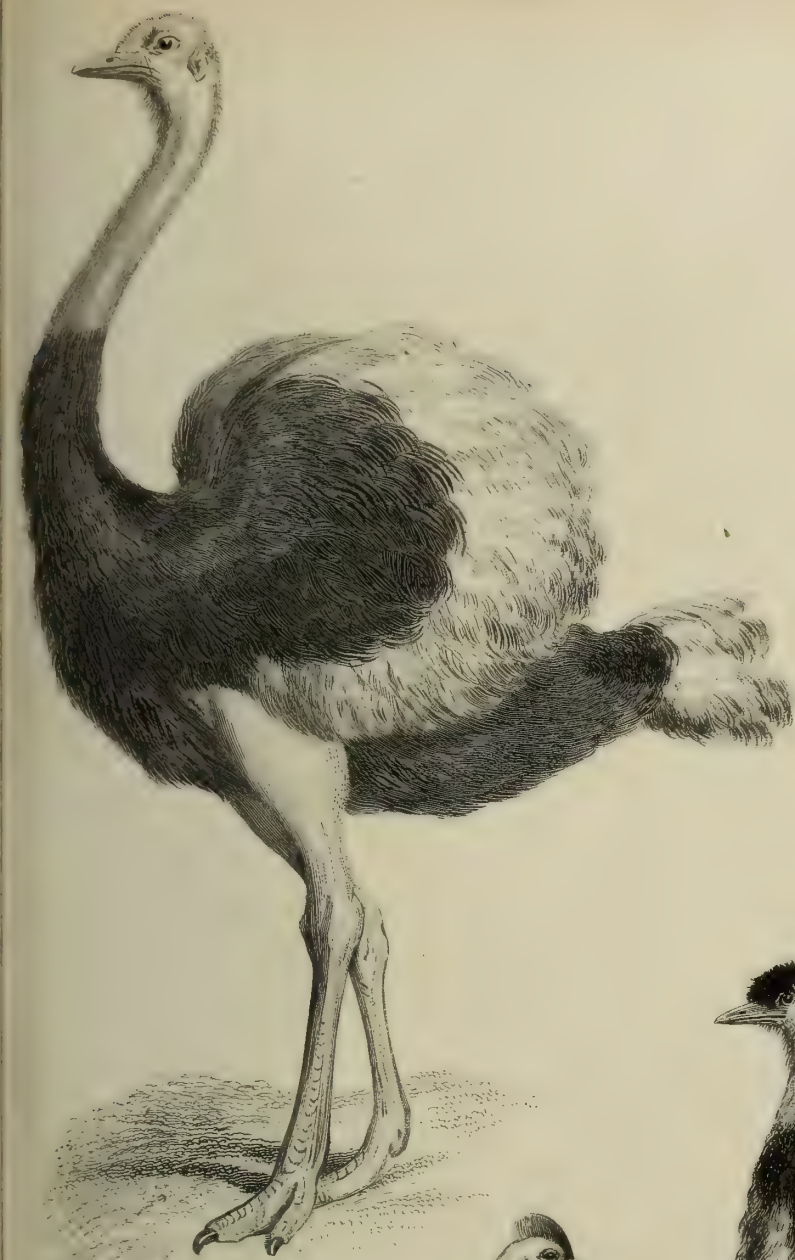
V. Wallia. Abyssinian Pigeon.



V. Calva. Bald-fronted Pigeon.

Genera. Struthio. Rhea. Casuarius. Dromaius.

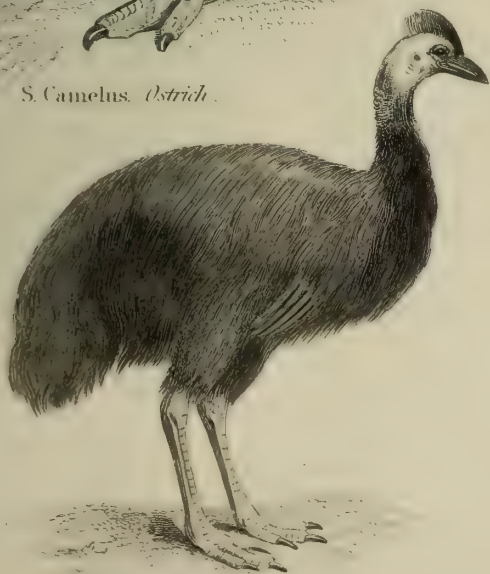
Gralla



S. Camelus. Ostrich.



R. Americana. Nandu.



C. Galeatus. Cassowary.



D. Ater. — Emu.

J.W. Lowry sculp.

Gralla.

Genera. Otis, Edicnemus, Charadrius, Vanellus, Haematopus, Cursorius, Dicholophus

Family Pterocles.



C. Crepitans. Common Thick-knee.



O. Tarda. Great Bustard



Char. Pivialis. Golden Plover



V. Melanogaster. Grey Sand piper.



H. Ostralegus. Pied Oyster catcher.



C. cursor. Brazen-winged Courser



D. Cristata. Crested Cariama.

delin.

Genera. Ciconia, Mycteria, Scopus, Anastomus, Tantalus, Platalea

Gralle



C Alba - White Stork



S Umbretta - Turtled Dove



M. Senegalensis - Senegal Jabiru



Platalea Ajaja - Roseate Spoonbill.



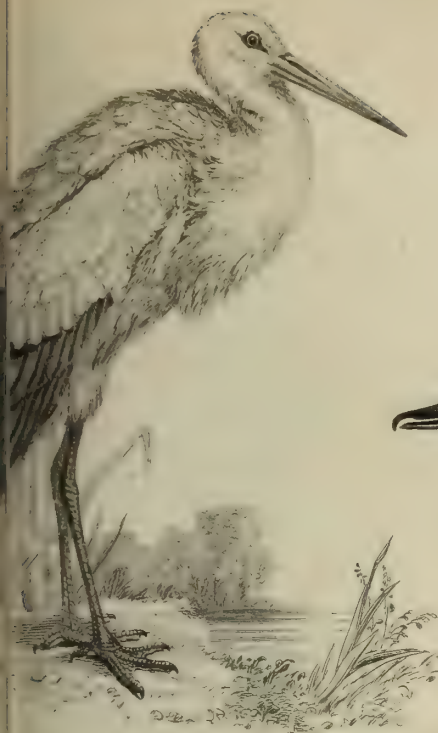
T Lactens - Milky Tantalus



A. Lamelligerus - Coromandel Erodia

Genera. Ciconia, Mycteria, Scopus, Anastomus, Tantalus, Platalea

Family. Cultrirostris



C. Alba. — White Stork.



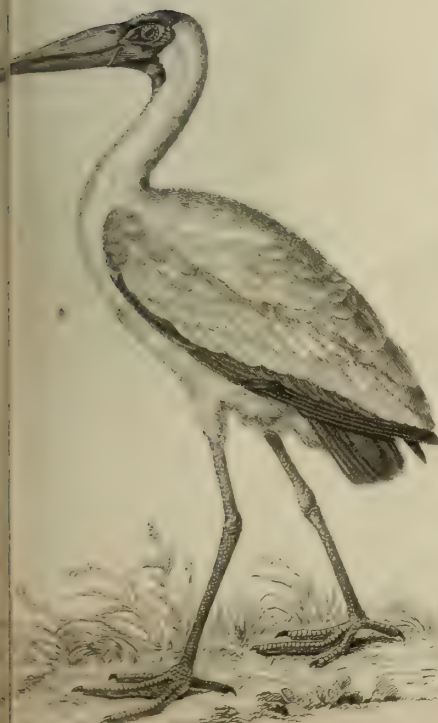
S. Umbretta. — Tuffet Umbrella



M. Senegalensis. — Senegal Jabiru



Platalea Ajaja. — Roseate Spoonbill.



T. Lacteus. — Milky Tantalus



A. Lamelligerus. — Coromandel Emdy



by G. S. S.

Family, Macroductylæ

Genera, Parra, Palamedea, Megapodius, Porphyrio, Chionis, Glareola, Phœnicopterus.



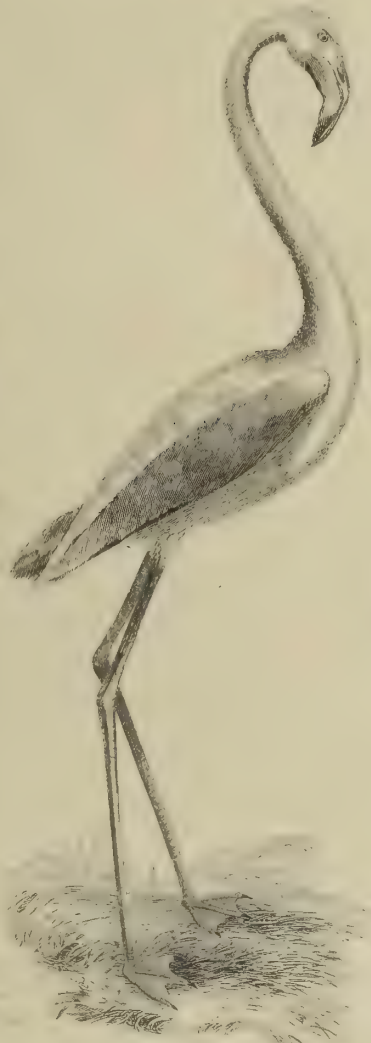
Parra Chinensis.—Chinese Jacana.



Pal. Cornuta.—Horned Scraper.



M. Freycineti.—Saxcinets Mankiro.



Phœn. Ruber.—Red Flamingo.



Porph. Pulverulentus.



C. Necrophaga.—White Shearbill.



G. Torquata.—Collared Pratincole.

John

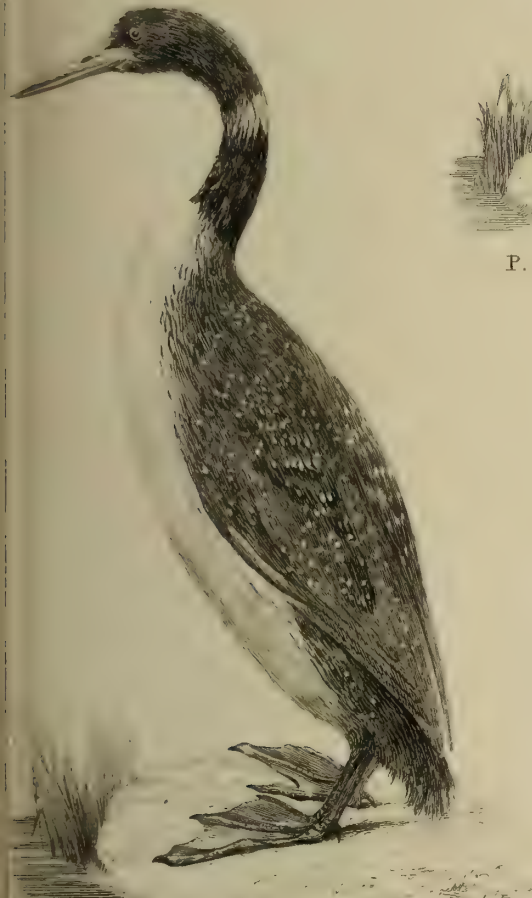
J. W. Lowry, sculp.

AVES.

Order. Palmipedes.

Genera. Podiceps, Podoa, Colymbus, Fratrecula, Alca, Aptenodytes.

Family. Brachypteres.



C. Glacialis — Northern Diver.



P. Cornutus — Horned Grebe.



Podoa Senegalensis — Senegal Coot-grebe



F. Mormon — Puffin.



Al. Impennis — Great Auk.



Apt. Patagonica — Patagonian Penguin.

Order. Palmipedes.

Gen. Procellaria, Haladroma, Pachyptila, Diomedea, Larus, Rhyncops.

Family. Longipennes.



Proc. Hartie — *Hartie's Petrel.*



H. Berardi — *Berardi's Haladrome.*



Pach. Vittata — *Broadbilled Prion.*



D. Exulans — *Wandering Albatross.*



L. Marmus — *Blackbacked Gull.*



R. Nigra — *Black Skimmer.*



Paluipedes.

Gen. Pelecanus, Carbo, Tachypetes, Sula, Flotus, Phaeton.

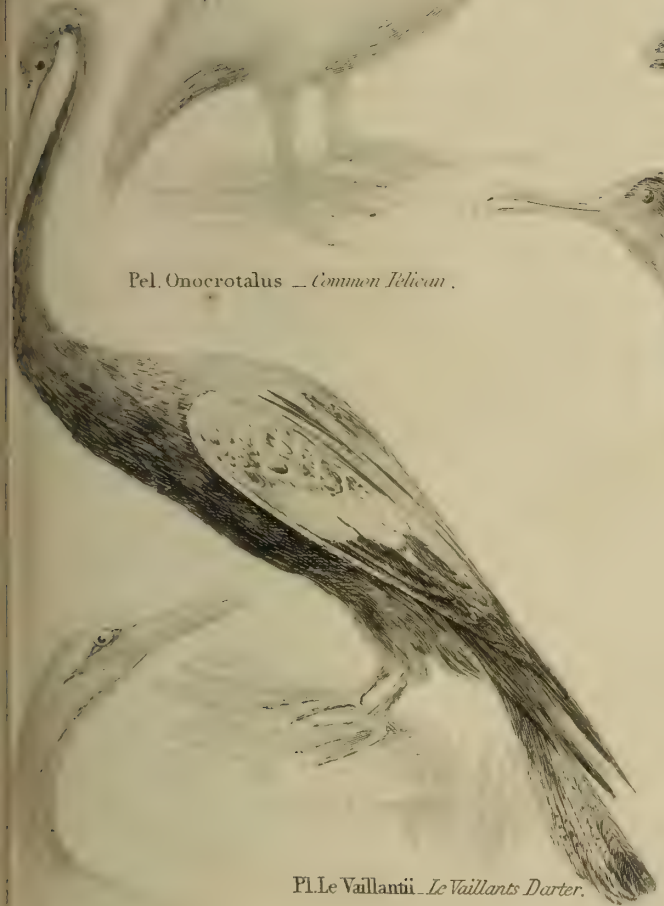
Family. Steganopodes.



Pel. Onocrotalus — Common Pelican.



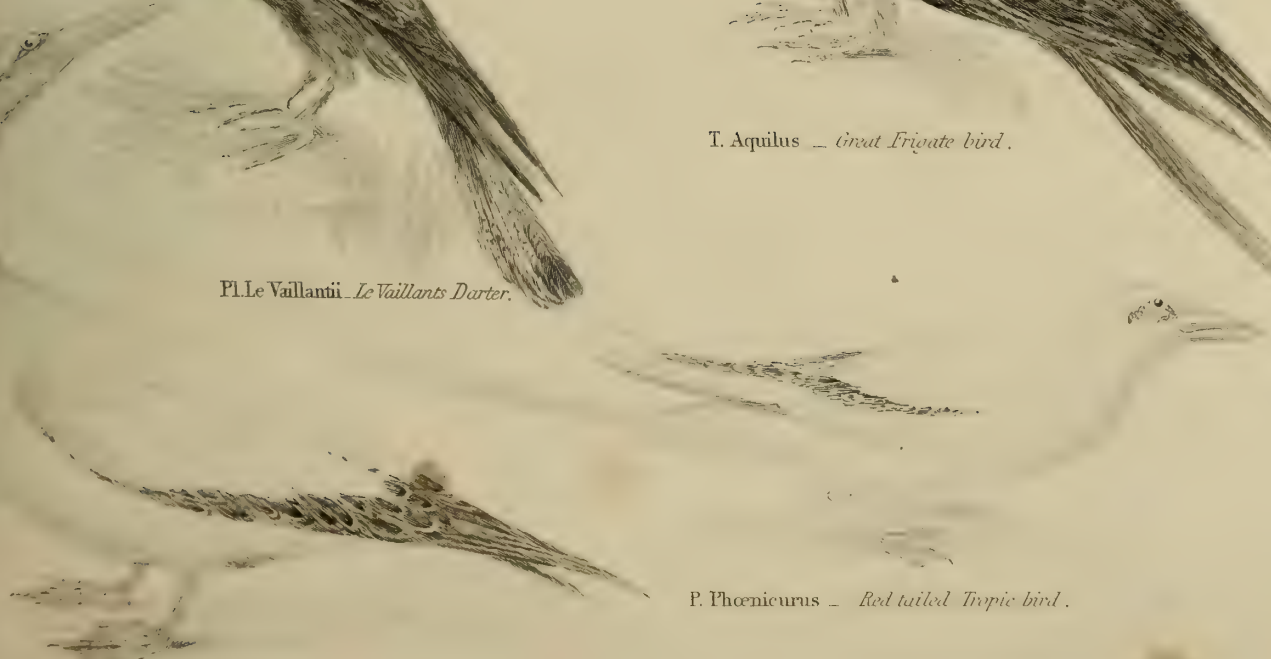
C. Cormoranus — Cormorant.



Pl. Le Vaillantii — Le Vaillant's Tropicbird.



T. Aquilus — Great Frigatebird.



S. Alba — White Gull.

P. Phœnicurus — Red-tailed Tropicbird.

Bilimpedes.

Family. Lamellirostris.

Genera. Cygnus, Anser, Cereopsis, Anas, Hydrobates, Mergus.



C. Musicus — Wild Swan.



An. Ferus — Wild Goose.



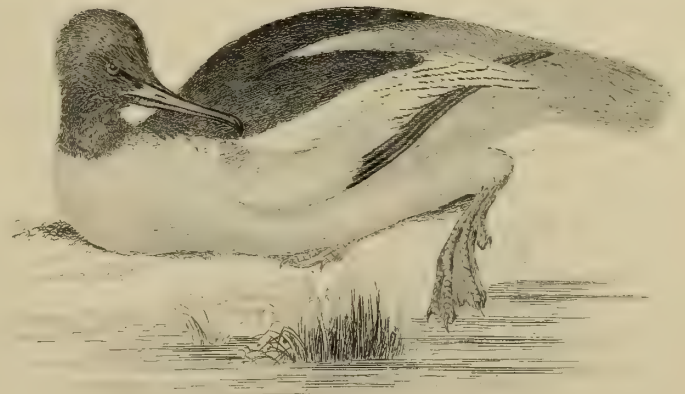
Cer. Novæ Hollandiæ — New Holland Pigeon Goose



An. Clypeata — Shoveller.



H. Lobatus —



M. Merganser — Goosander.

AVES.

Order. Grallæ.

Genera. Cancroma & Ardea.

Family. Cultrirostres.



C. Cochlosaria. Boat Bill.



A. Major. Common Heron.



A. Stellaris. Bittern.



A. Egretta. Great Egret.

Engraved by W. & J. Lowry.

INSECTA.

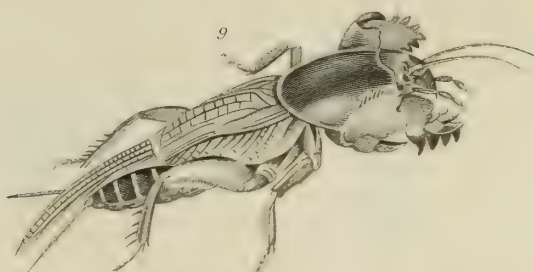
Class MANDIBULATA.

Order ORTHOPTERA.

Order COLEOPTERA.



Lucanus Cervus.



Gryllotalpa vulgaris



Blatta Lapponica



Forficula vulgaris.



Gryllus arvensis

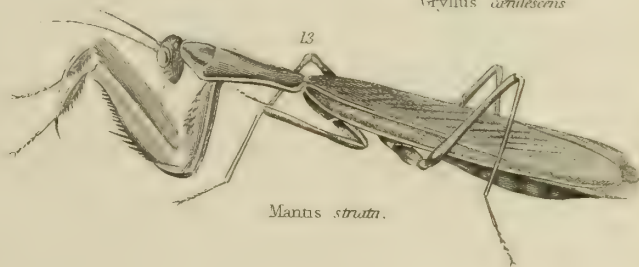


Lampyris noctilua.

Mite Female.



Cerambyx



Mantis strati.

Order NEUROPTERA.

Order HYMENOPTERA



5 a



5 b



5 c

5



Nymphalea formicaria.



Larva of Libellula depressa.



Spheg spirifer



Pompilus viaticus.



8 a



8 b



Nymphaea vulgaris



Ascalaphus Barbaricus.



Urocerus gigas.



Head of Phylanthus triangularis.

INSECTA.

Class HAUSTELLATA
Order LEPIDOPTERA

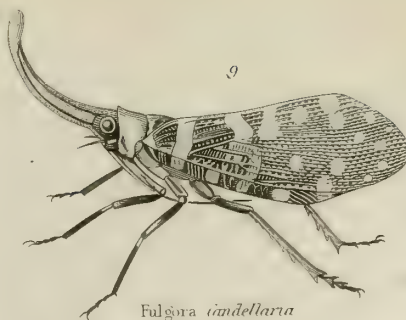
Order HEMIPTERA.



123 *Lycaena dispar*



Noctua Delphinida



Fulgora vandellaria



Naucoris amnicoides



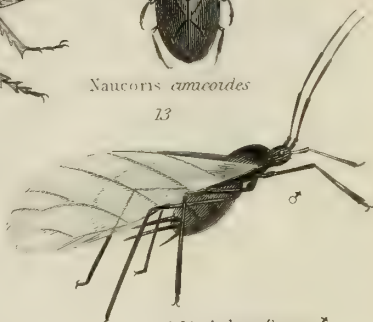
3



Bombyx dispar



Coccus cacti



13 14 *Aphis Rosa* ♂ ♀



7, 8 *Bombyx tuxata*



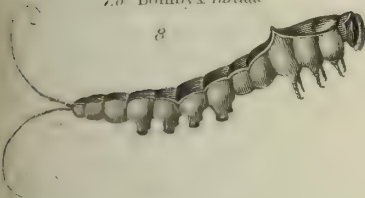
Hesperia comma



Notonecta glauca



14



8

Order DIPTERA.

Order APTERA



Echinomyia riva



Hirtea Pomona



22



22, 23. *Pulex irritans* ♂ ♀



Anopheles Mestanus



Ceroplatus typhloides



24



Diopsis Ichneumonaea



Thereva crassipennis



25

Egg



26



Tabanus niger

24-26 *Pulex putrescens* or *Clique* ♂ ♀

INSECTA.

Order COLEOPTERA.

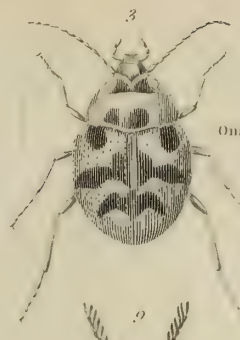
PLATE 3.



Anthia saltata



Elaphrus uliginosus



Omophron lineatum



Hydrõus piceus



Xerophorus cespitæ



Passalus interruptus



Drilus flavescens



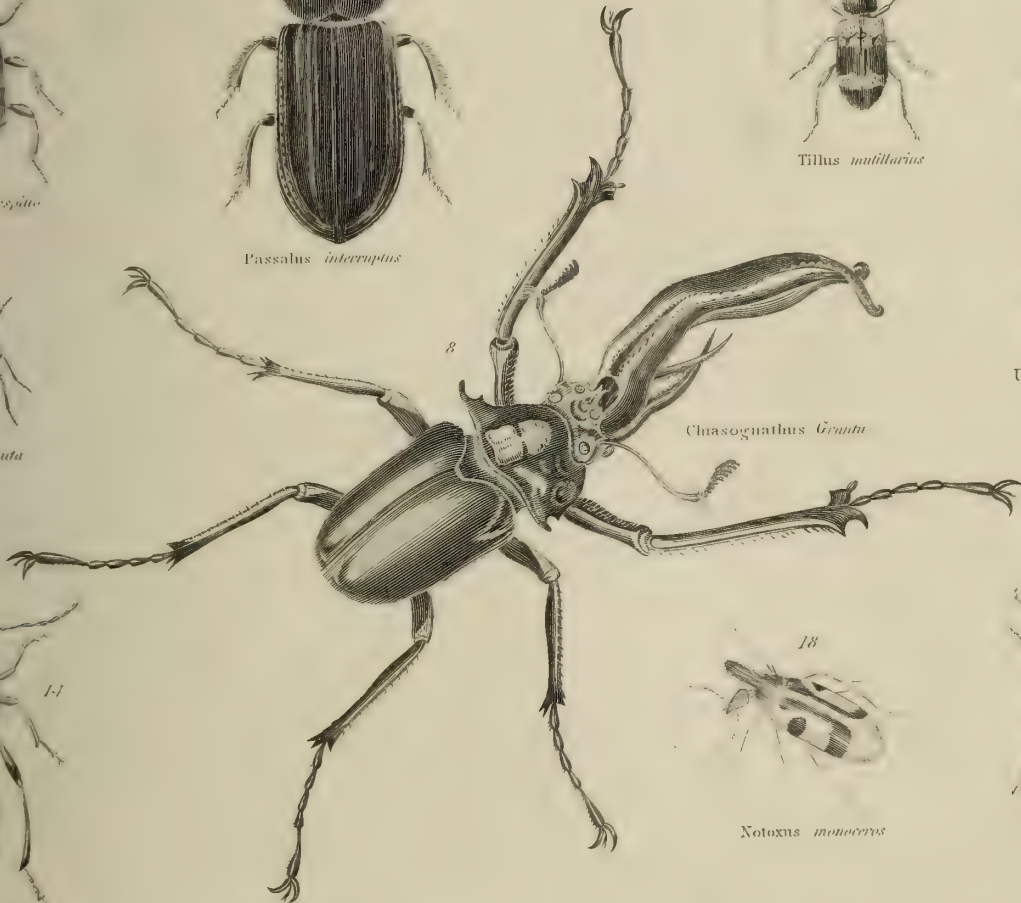
Tillus militarius



Uciota flavipes



Tachys minuta



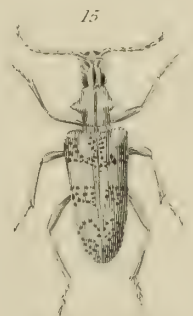
Chasognathus Granti



Molonchus abbreviatus



Notoxis monocerus



Rhagium nardus



Homalysus suturalis



Cerocoma Schultzei



Callichroma alpina



Enicopus niger



Lomechusa dentata

J.W. Lowry sculp.



INSECTA.

Order COLEOPTERA.



Holophorus aquaticus



Scaphidium 4maculatum



Anthicus pedestris



Nitidula grisea



Pisum Fw



Necrodes littoralis

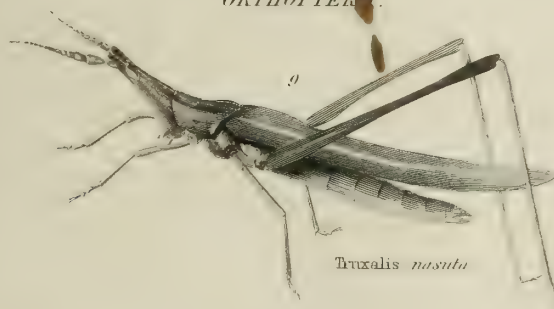


Apate capuzina

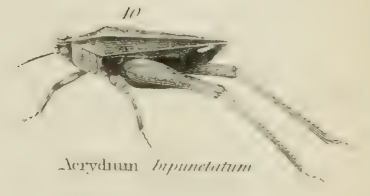
ORTHOPTERA.



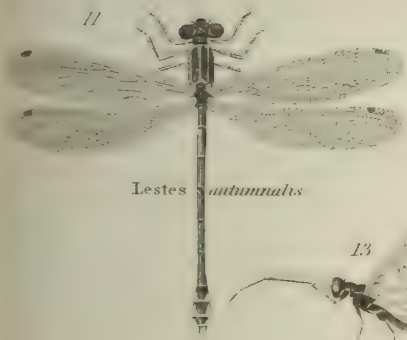
Tridactylus paradoxus



Truxalis nasuta



Aerydium bipunctatum



Lestes autumnalis

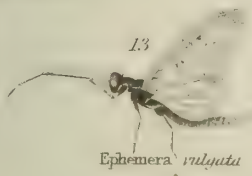
NEUROPTERA.



Ephemerella notata

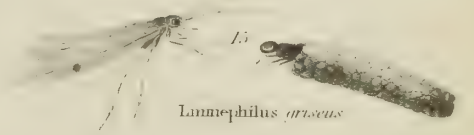


Panorpa vulgaris



Ephemera vulgata

TRICHOPTERA.



Limnephilus griseus

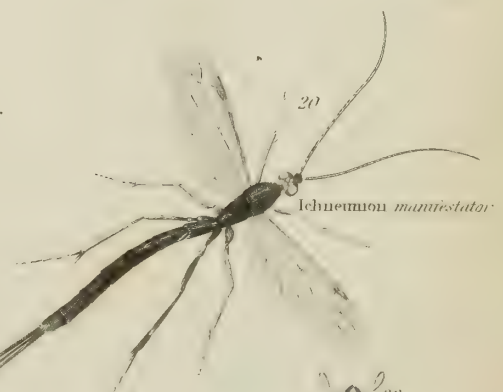
HYMENOPTERA.



Abaenus pictus



Scolia 4-maculata



Ichneumon munitator



Evania appendicaster



Mutilla coccinea



Pterygophorus cinctus



Mesochorus apiformis



INSECTA.

Order LEPIDOPTERA.



Fidonia melanaria



Earis clorana



Crambus margaritellus



Harpiteryx harpella



Adela Sultzella



DIPTERA



Ceria conopsoides



Henops marginatus



Anthrax Morio



Hydrometra stagnorum



Berytus tipularius

HEMIPTERA



Tingis vinarum



Lygæus militaris



Tetyra nigrolineata



Genis lacustris

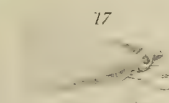


Syrts paradoxus

HOMOPTERA



Lystra lamuginosa



Flata alba



Delphax pellucidus



Delphax dorsatus

STREPSIPTERA



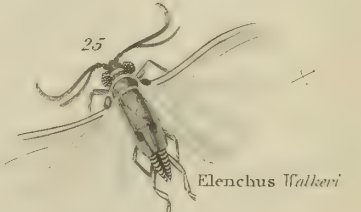
Ps. cervicicollis



Stylops Melitta



Stylops Kirbyi



Elenchus Walkeri



Balictophagus trichsi



Stylops Dalii



Xenos Vesparum

Genera—Simia—Semnopithecus—Cercopithecus—Cynocephalus



Simia Satyrus. Orang Outang.



Semnopithecus Maurus Lotong

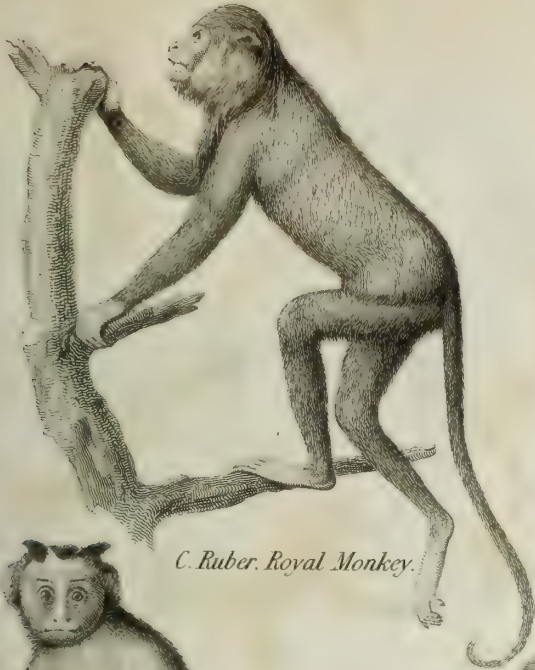


Cercopithecus Nasius. Proboscis Monkey.



Cynocephalus Mormon. Great Baboon.

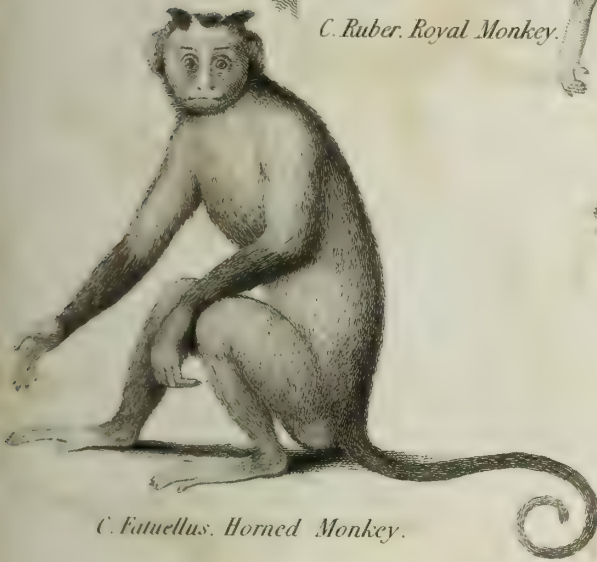
Genera. Cebus and Hapale.



C. Ruber. Royal Monkey.



C. Coäta. Four fingered Monkey.



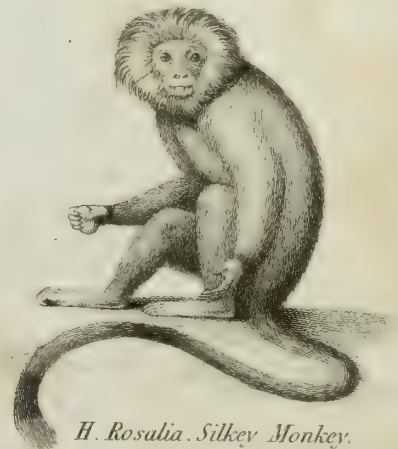
C. Fatiellus. Horned Monkey.



C. Sciurus. Squirrel Monkey.



H. Communis. Striated Monkey.



H. Rosalia. Silkey Monkey.

Genera, Lemur, Lichanotus, Stenops, Otolicinus, Tarsius.



L. Catta. Ring tailed Macaquo.



I. Madagascariensis Indri.



S. Tardigradus. Bengal Lori.



O. Senegalensis. Senegal Galago.



T. Daubentonii. Daubenton's Tarsier.



T. Bancanus. Banca Tarsier.

MAMMALIA.

Genera. Pteropus, Molopsus, Phyllostoma, Erinaceus, Sorex, Talpa.

Family. Cheiroptera.
Insectivora.

M. Velox.



Pter. Javanicus.



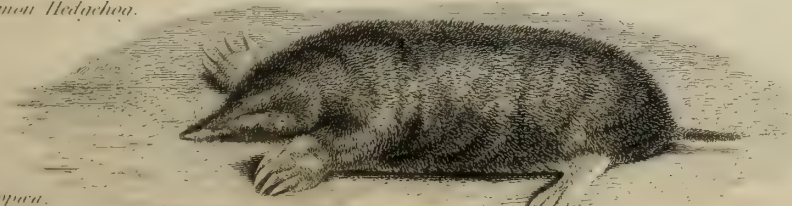
Phyl. Spectran. — Spectre Bat.



E. Europæa. Common Hedgehog.



S. Araneus. Common Shrew.



T. Europæa.

Common Mole.



MAMMALIA.

Order. Sarcophaga.

Genera. Ursus, Nasua, Procyon, Gulo.

Family. Carnivora.
Tribe. Plantigrada.



U. Maritimus. Polar Bear.



P. lotor. Raccoon.

N. fuscus. Brown Coati Mundi.



G. Americanus. Wolverine.



MAMMALIA.

Family. Carnivora
Tribe. Digitigrada

Genera: Mephitis. Mustela. Viverra. Lutra. Herpestes.



Meph^s. Americana. American Mephitis.

Must^a. Foina. Pine Martin.



V. Civetta. Civet.



L. Vulgaris. Common Otter.

H. Ichneumon. Egyptian. Ichneumon.



MAMMALIA.

Order. Sarcophaga

Genus. Canis.

Family. Carnivora.

Tribe. Doguigrada



C. Lupus. Wolf.



C. Fennecus. Fennec



C. Familiaris. Var Thibet Thibet Dog



C. Vulpes. Fox.



C. Aureus. Jackal.

Genera. Hyæna. Felis.

Family. Carnivora
Tribe. Digitigrada.



H. Fulvaris: Striped Hyæna.



F. Leo. Lion



F. Tigris. Tiger.

MAMMALIA.

Genera. Phoca. Otaria. Trichechus.

Family. Pinnata



P. Vitulina. — Common Seal.



O. Nigra. — Black Otary



T. Rosmarus. — Arctic Walrus

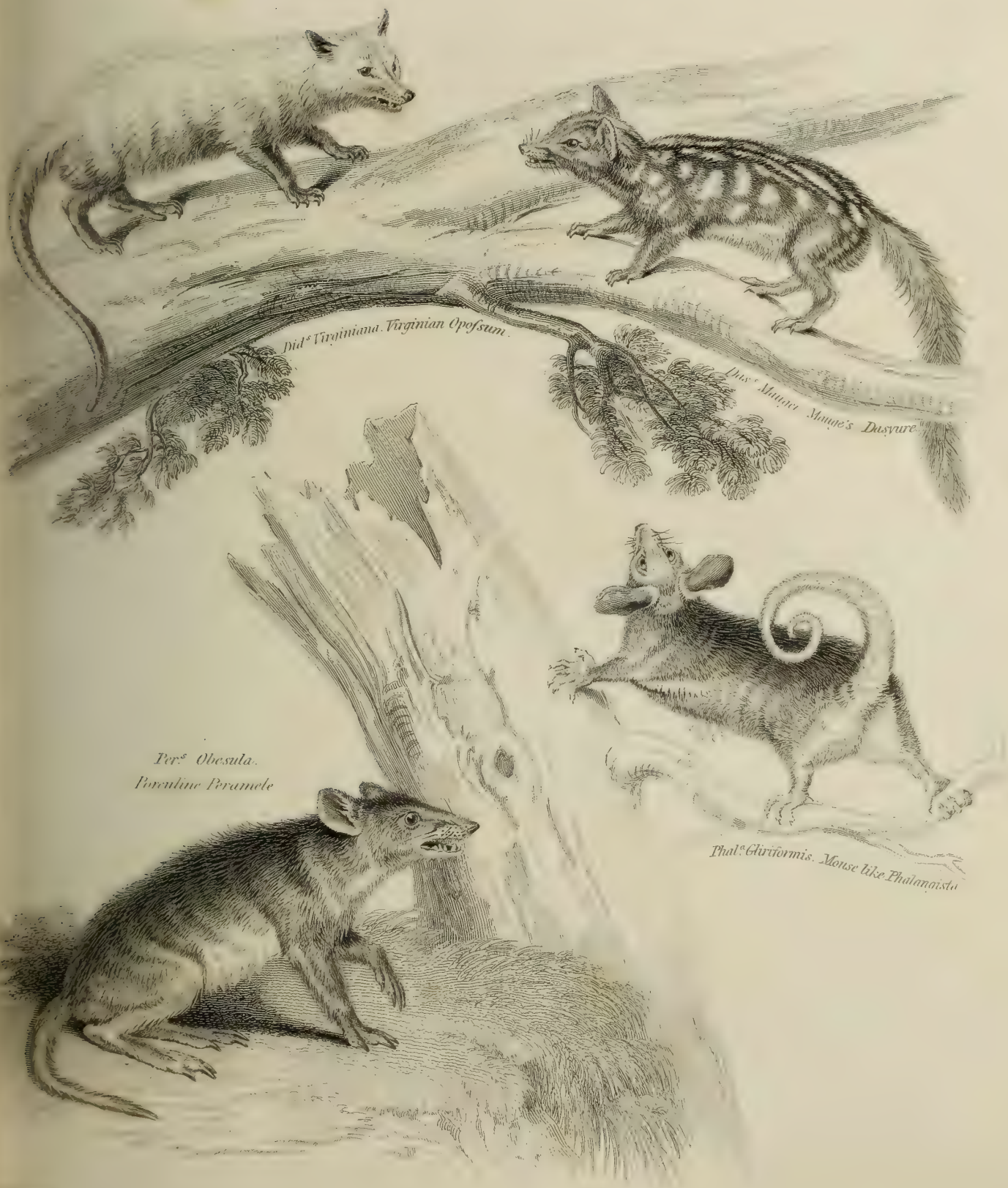
J. W. Lowry del.

MAMMALIA.

Genera. Didelphis. Dasyurus. Perameles. Phalangista.

Family Pedimana.

Order Marsupialia



Didelphis Virginiana. Virginian Opossum.

Dasyurus Mungo. Mungo's Dasyure.

Perameles Obesula. Porembac Peramele

Phalangista Gliriformis. Mouse like Phalangista

J.W. Lowry sculp.

MAMMALIA.

Genera. *Hypsorymnus*, *Halmaturus*, & *Phascogomys*.

Ursupialia

Fam. Salientia & Rodentia



Hyp.^s Murinus. Potoroo.



Halm.^s Giganteus. Great Kangaroo.



P. Fuscus. Wombat.

J. W. Leary sculp.



Rodentia .

Genera . Castor, Hypudæus, Myoxus, Hydromys, Mus, Dipus .

Family, Claviculata



Hyp. Lemmus. — Lemming .



My. Avellanarius. — Dormouse .



C. Fiber. — Common Beaver .



Hyl. Coypu — Molina's Coypu .



Mus. Rattus. — Black Rat .



D. Iaculus. — Egyptian Jerboa .

J.W. Lowry, Sculp .

Rodentia

Genera . Pedetes . Arctomys . Pteromys . Lepus . Hystrix .

Family . Claviculata .



A. Alpinus .— Alpine Marmot .



Ped. Capensis .— Cape Jerboa .



Pter. Sabrinus .— Greater Flying Squirrel .



L. Timidus .— Common Hare .



L. Pusillus .— Calling Hare .



H. Cristata .— Common Porcupine .

1011

J.W. Lowry Sculp



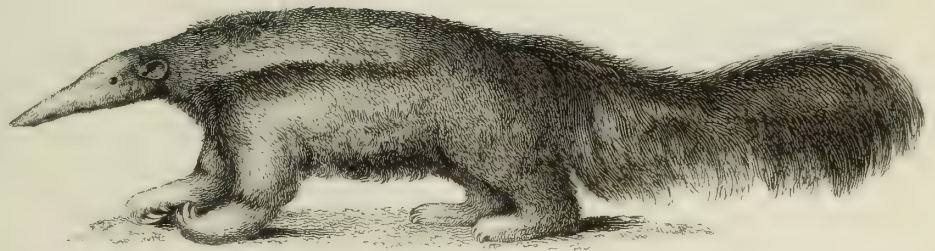
Genera. Bradypus. Dasypus. Myrmecophaga. Manis. Echidna. Ornithorhynchus.



Tridactylus. Three toed Sloth.



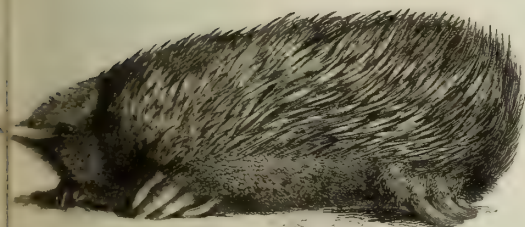
D. Novemcinctus. Nine banded Armadillo.



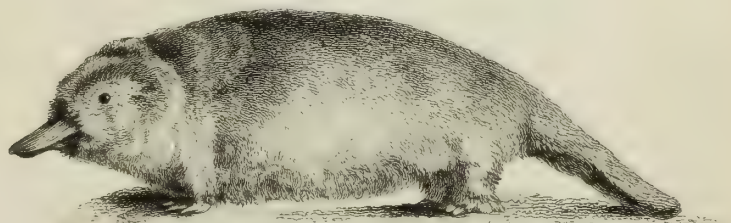
M. Jubata. Great Ant eater.



M. Macroura. Long tailed Manis.



E. Illatrix. Spiny Echidna.

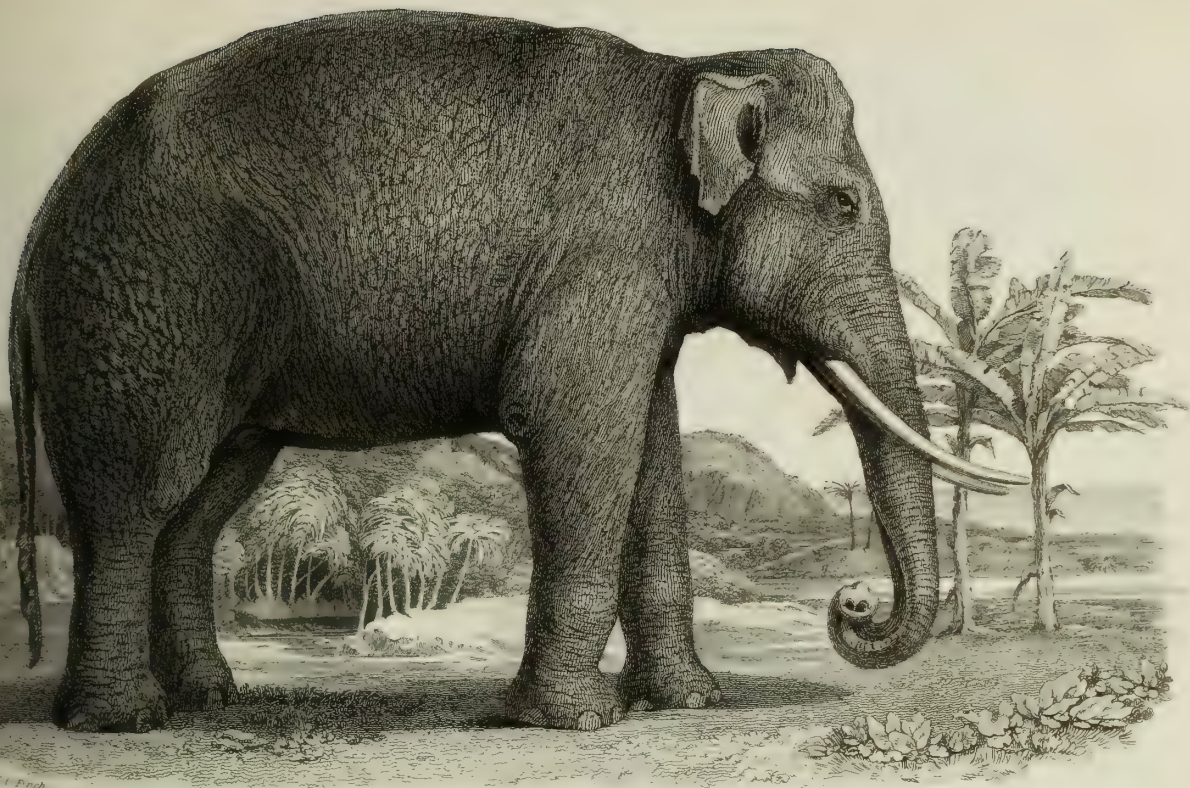


O. Paradoxus. Rufous Ornithorhynque.

Order. Pachydermata.

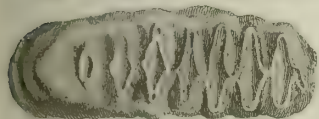
Genus. Elephas.

Family. Proboscidea.

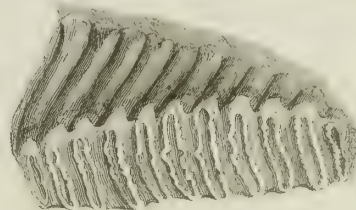


E. Indicus. Indian Elephant.

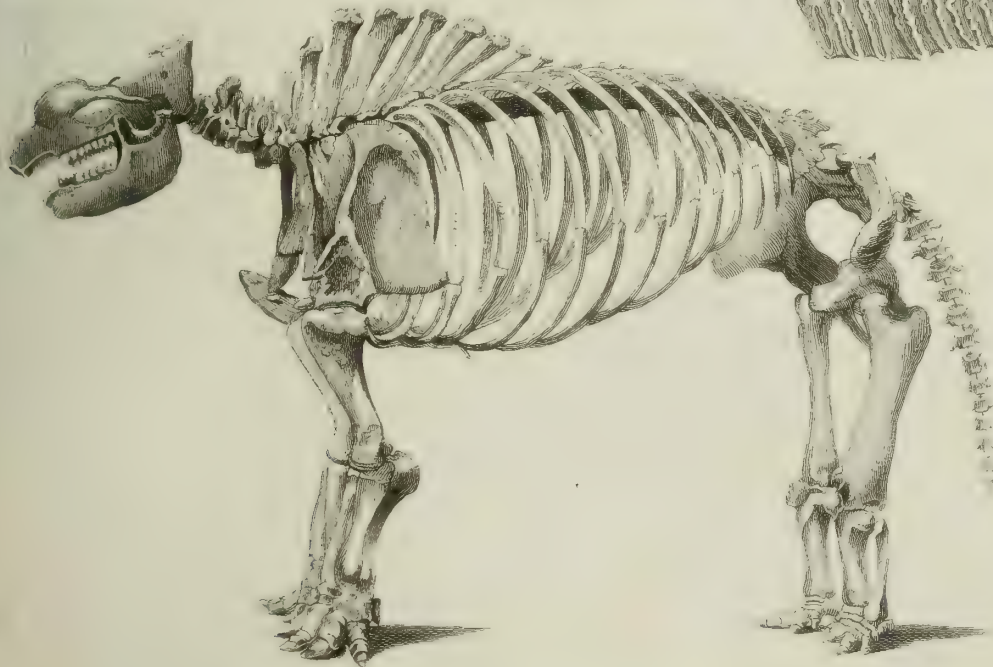
Tooth of African Elephant.



Tooth of Indian Elephant.



Genus. Mastodon.



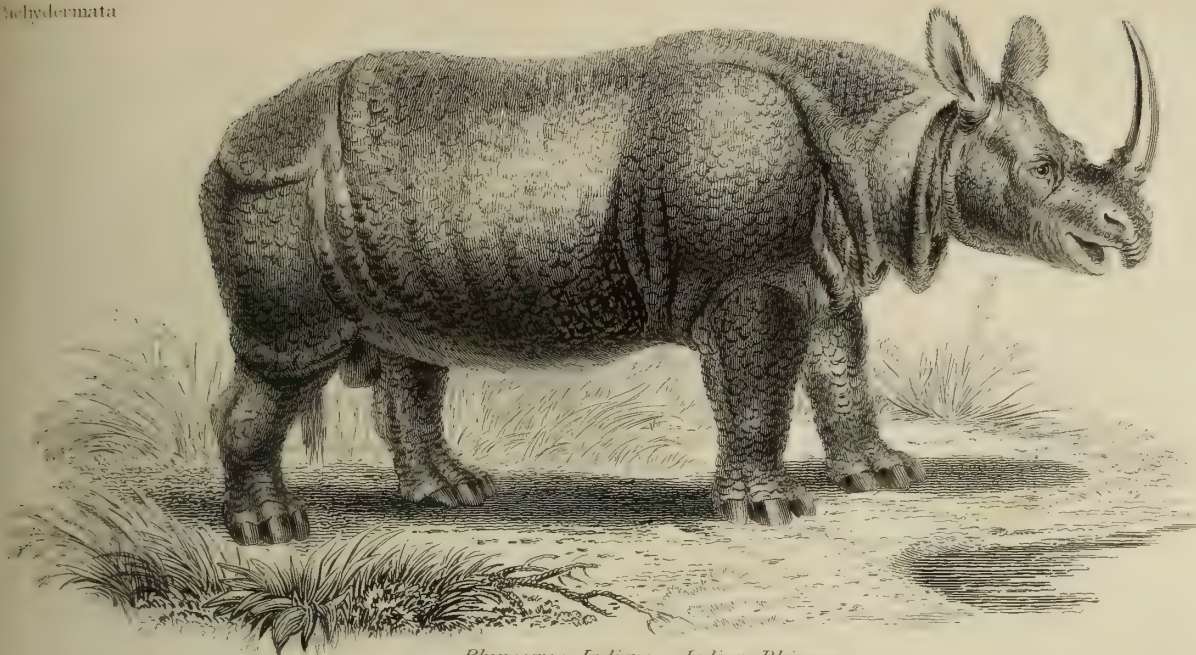
M. Giganteum. Gigantic Mastodon.

MAMMALIA.

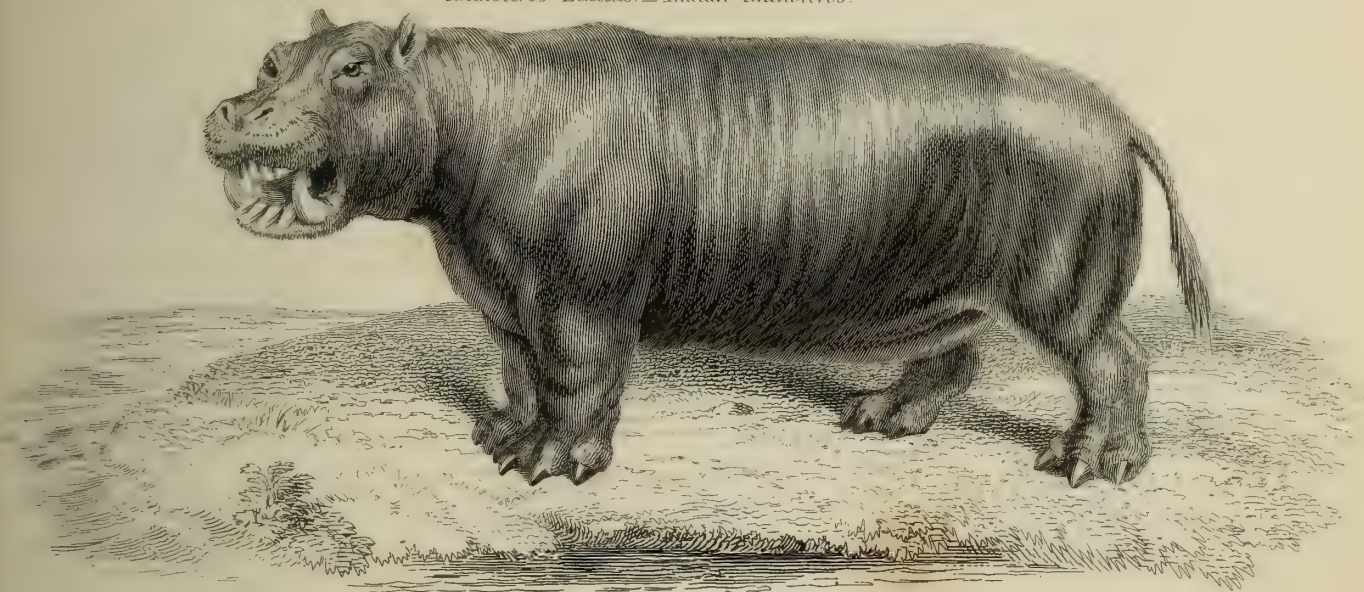
Genera Rhinoceros, Hippopotamus, Tapirus.

Family Proboscidea

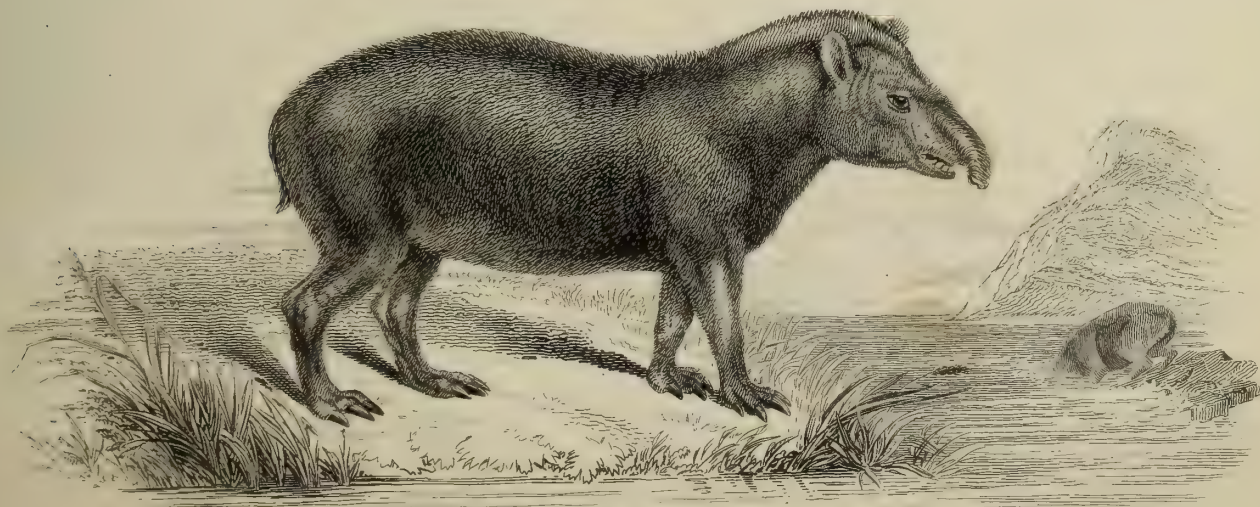
der Pachydermata



Rhinoceros Indicus. — Indian Rhinoceros.

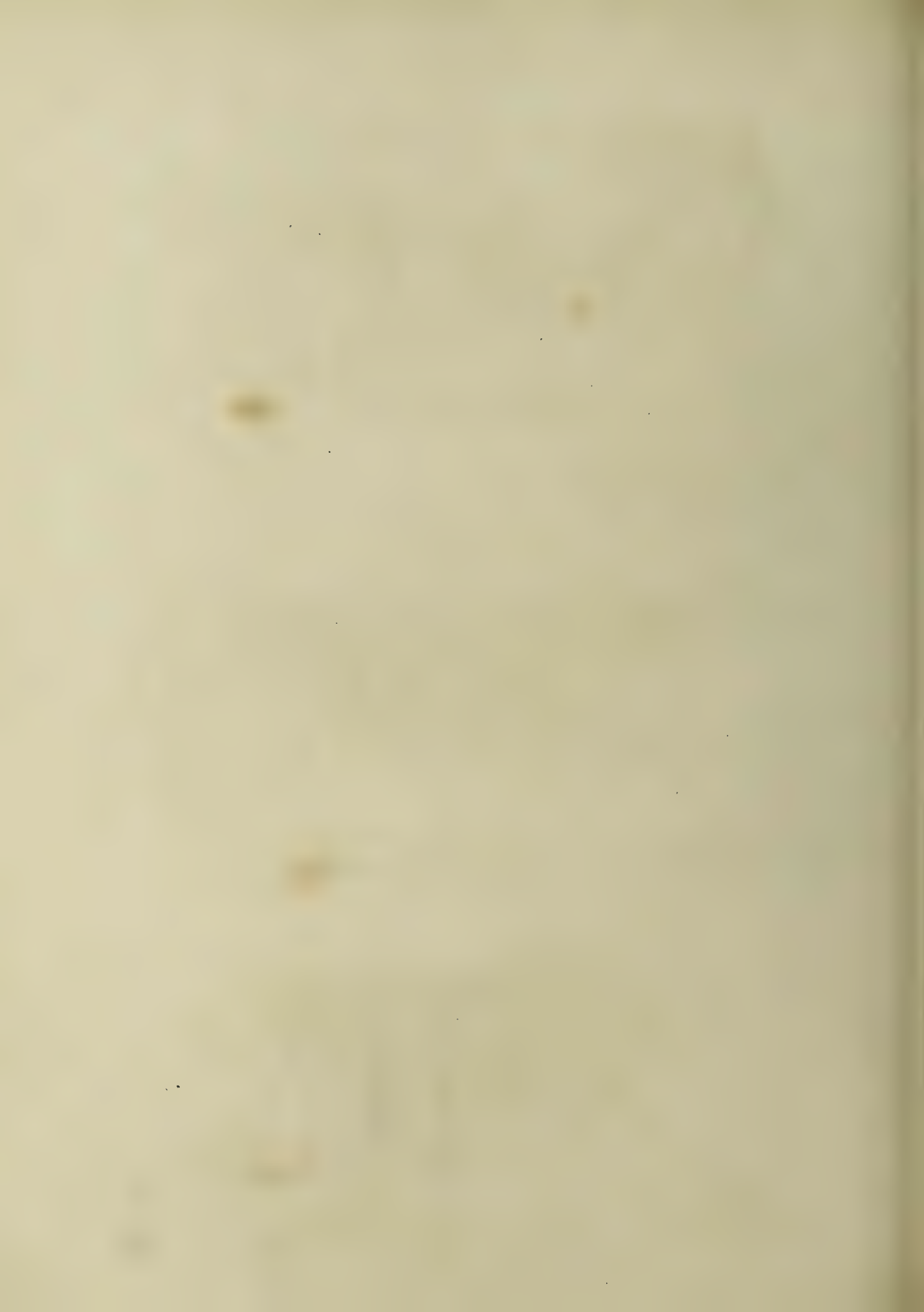


Hippopotamus Amphibius. — Hippopotamus.



Tapirus Americanus. — American Tapir.

Londoner delin

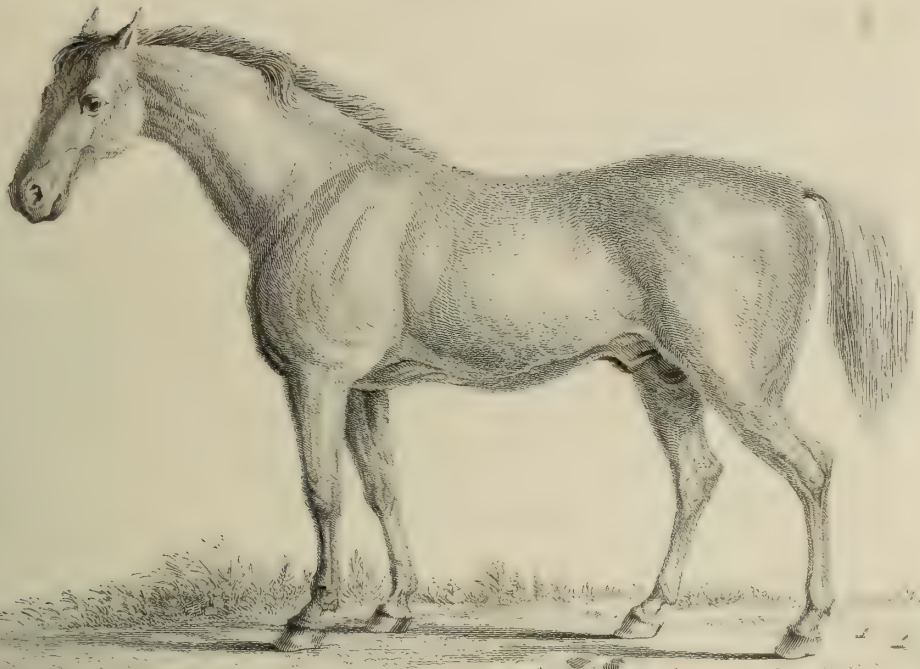


MIAMMALIA.

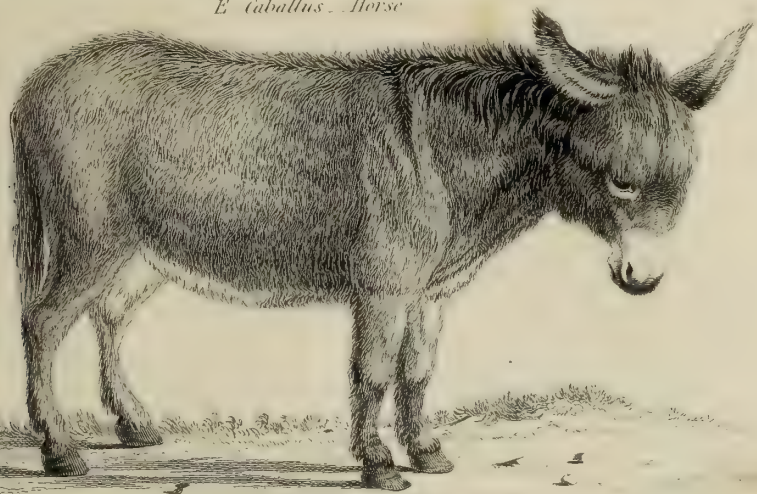
Genus. Equus.

Fam. Solidungula

Pachydermata.



E. caballus. Horse



E. asinus. Ass



E. zebra. Zebra.

J. W. Lowry sculp.

Genera. Camelus, Auchenia, Moschus.

Ruminantia

Family Acornia.



C. Dromedarius Dromedary



A. Glama—Llama



M. Javanica—Java Musk

J. W. Lowry sculp.

Genera, Cervus, Camelopardalis

Family, Solidicornia

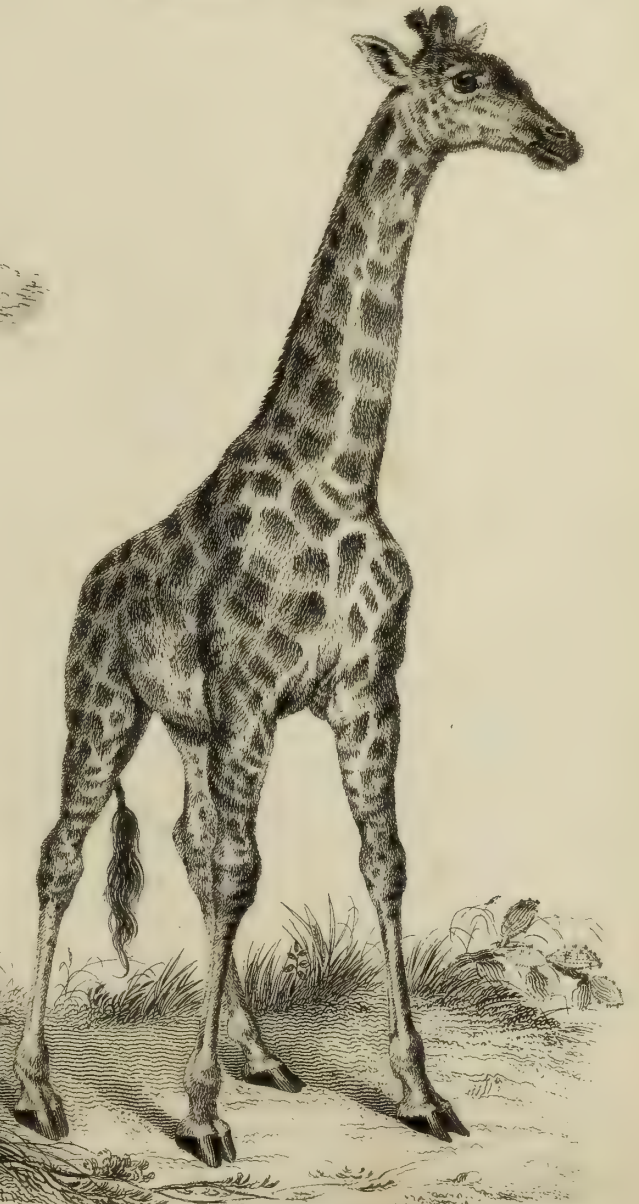
Ruminantia



Cer. Capreolus. — Roebuck



Cer. Alces. — Elk or Moose Deer



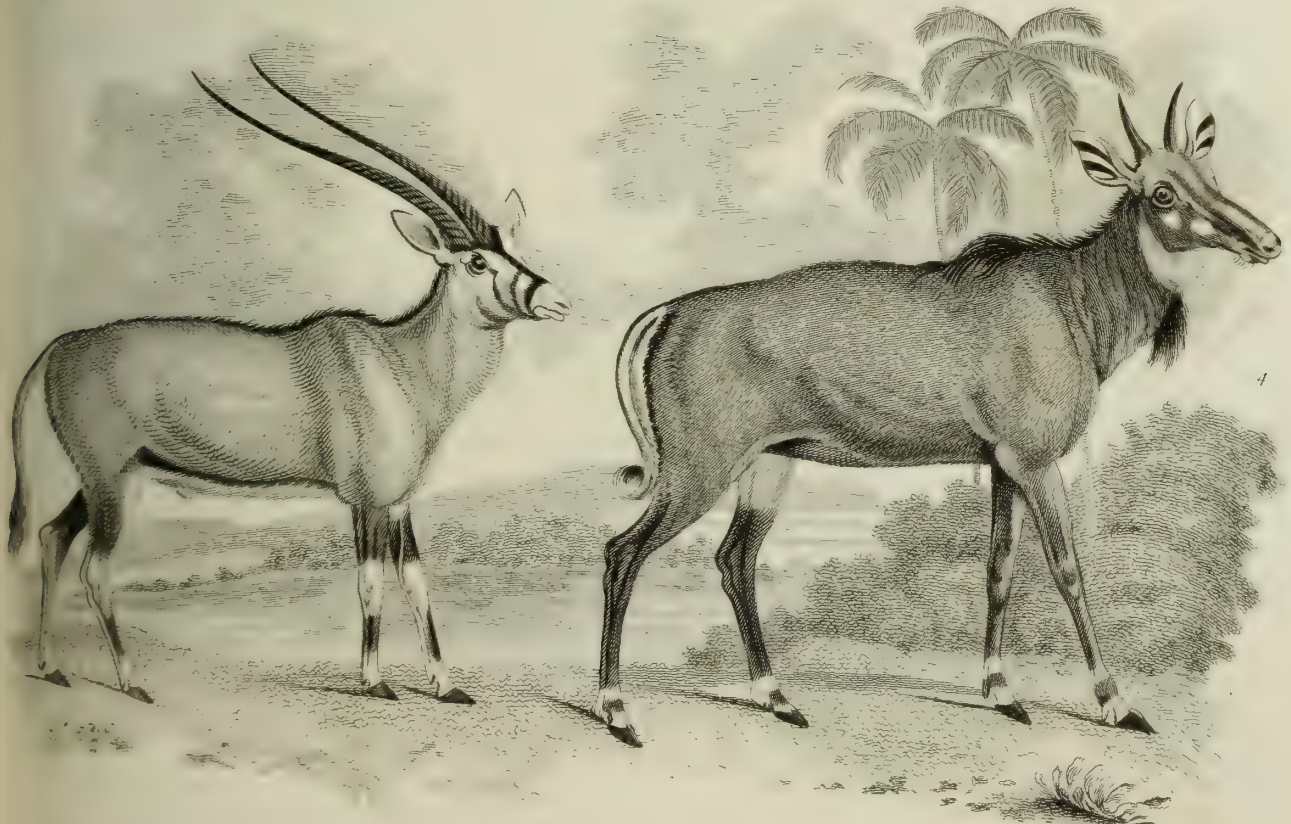
Cam. Giraffa. — Camelopard



Cer. Tarandus. — Reindeer

MAMMALIA.

Ord: Ruminantia, Fam: Cavicornia, Gen: Antelope.



1 *A Cervicapra* Common Antelope. 2 *A Oryx* Egyptian Antelope. 3 *A Pygmaea* Royal Antelope.

4 *A Picta* Whitefooted Antelope. 5 *A Gnu* Gnu Antelope.

Griffith sc.

Genera . Capra , Ovis , Bos .

Family . Cavicornia .

Mammalia



C. ibex. — Ibez Goat .



O. ammon. — Wild Sheep .



B. americanus. — Bison .



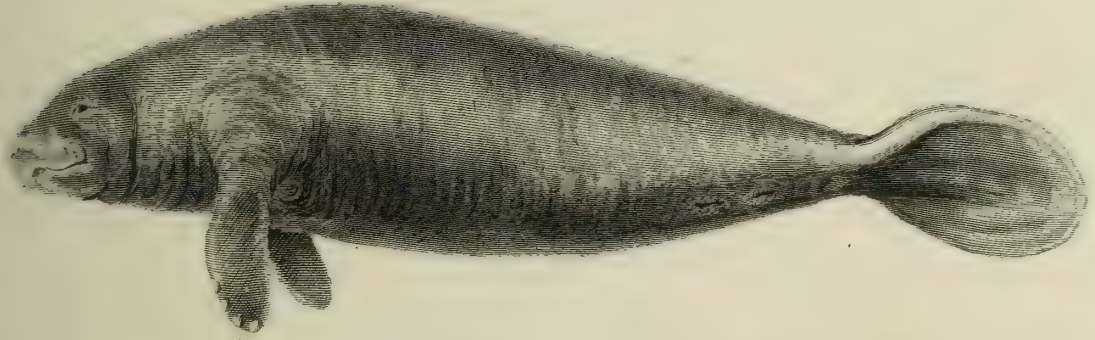
O. montana. — Rocky Mountain Sheep .

Lowry delin

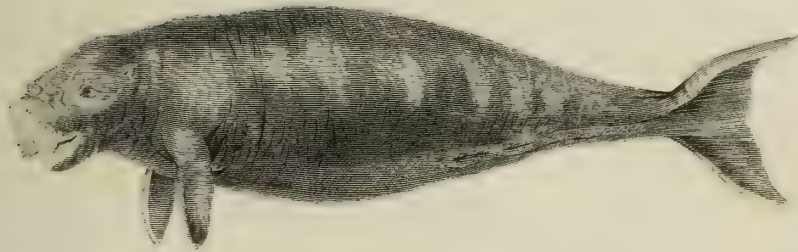
J.W. Lowry. Sculp.

Genera. Manatus. Halicore. Rytina.

Family. Herbivora



M. Americanus. — American Manatee.



H. Dugong. — Dugong.



R. Stelleri. — Stellers Rytina. (Young.)

Genera. Delphinus, Monodon, Physeter, Balæna.

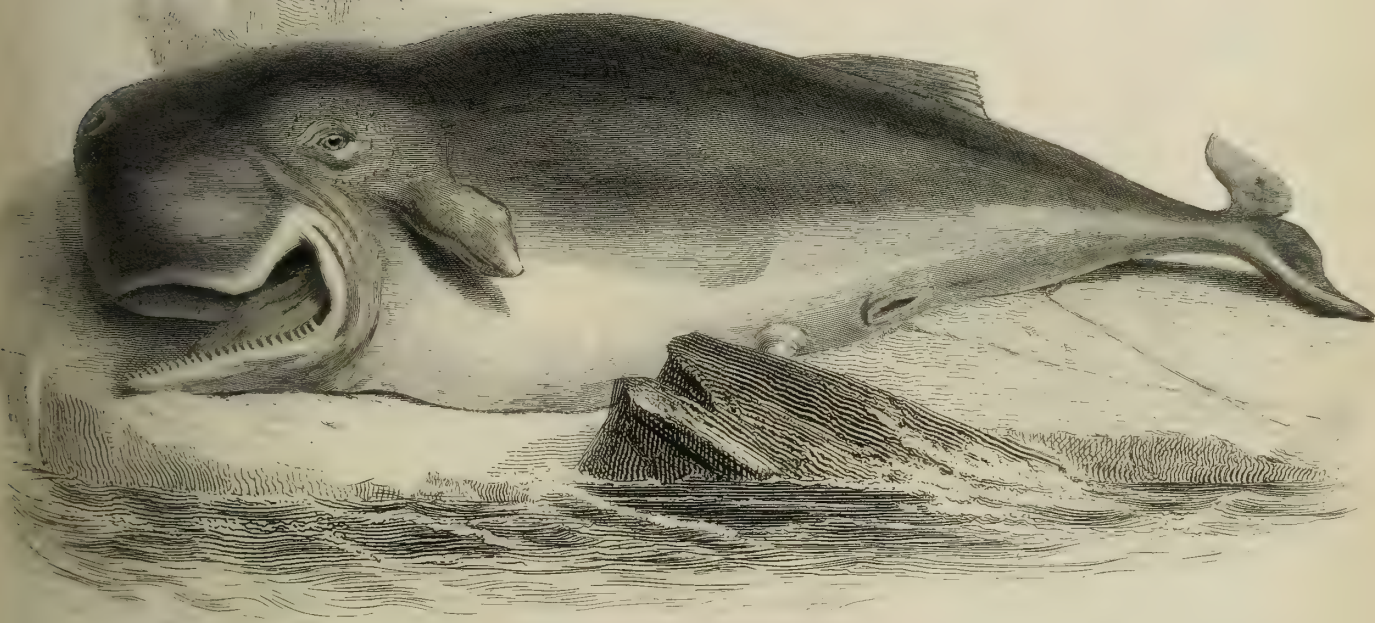
Family. Genuina.



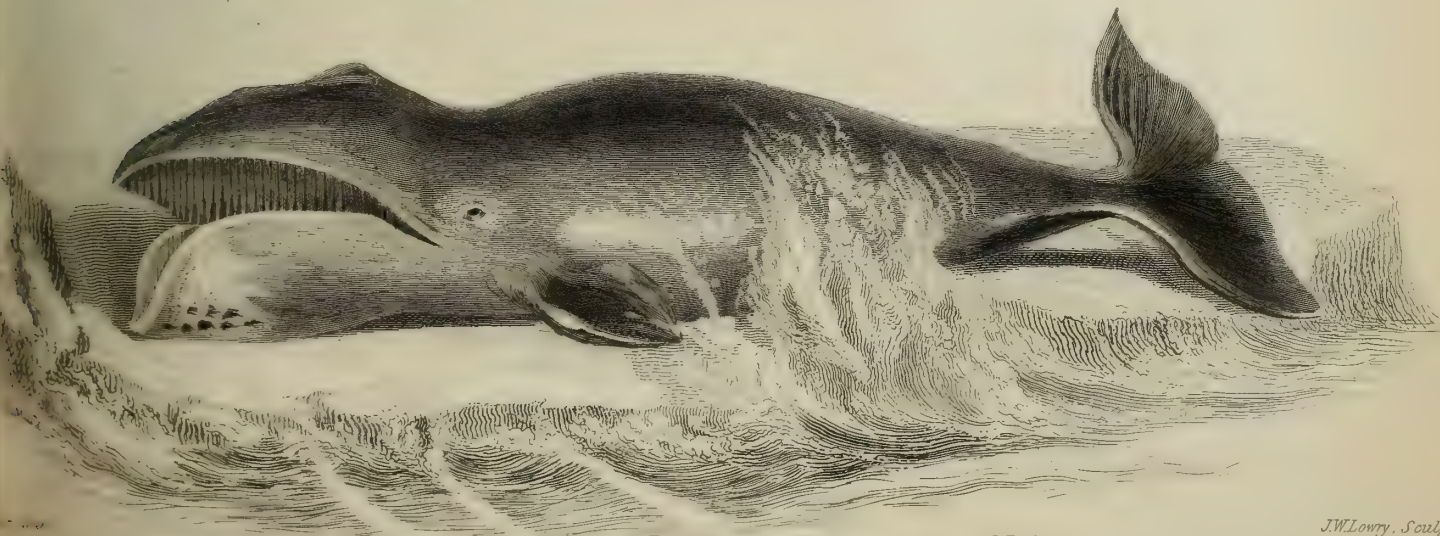
D. Delphis.—Dolphin.



M. Monoceros.—Narwhal.



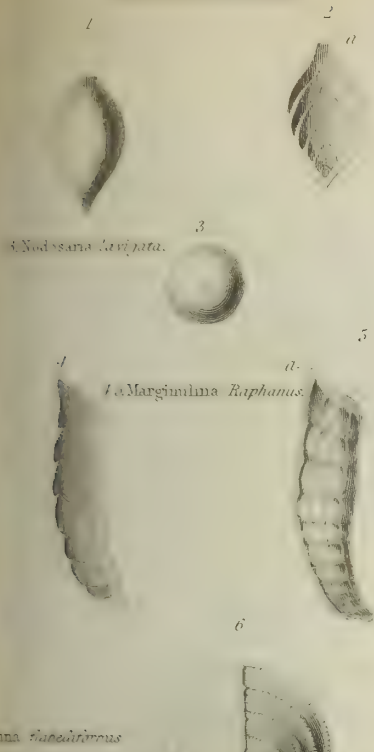
P. Macrocephalus.—Cachalot or Spermaceti Whale.



B. Mysticetus.—Common Greenland Whale.

JW Lowry, Sculp.

Fam. I. NODOSORIADÆ.



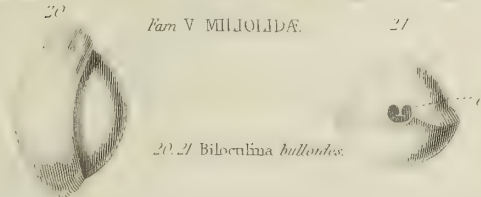
Fam. II. TEXTUARIADÆ.



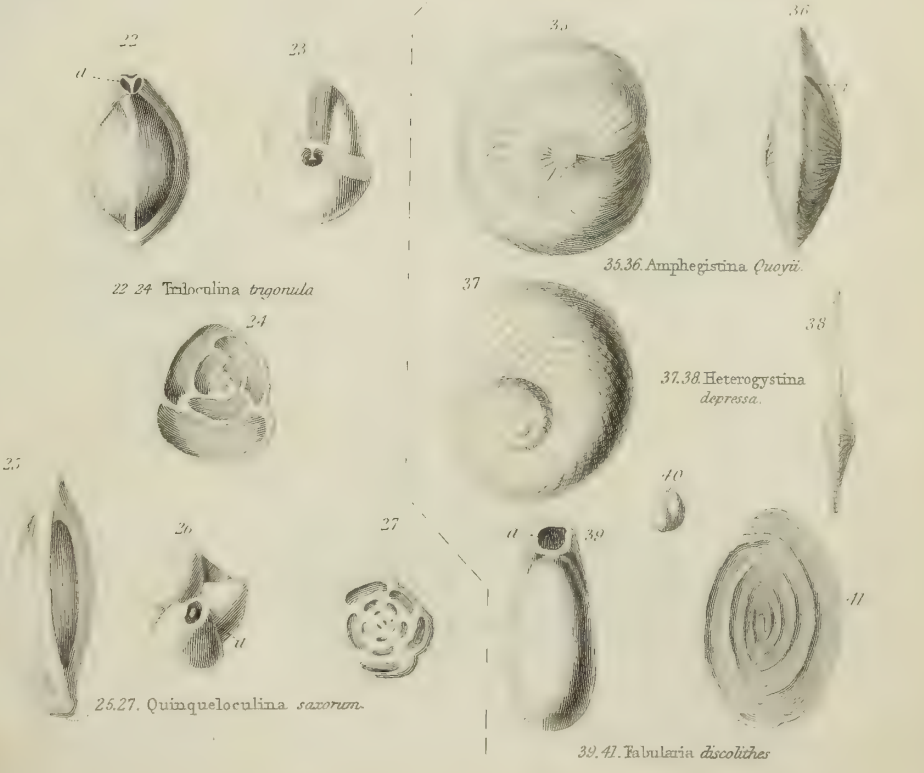
Fam. III. ROTALIADÆ.



Fam. V. MILIOLIDÆ.



Fam. VI. ORBICULINADÆ.



Fam. IV. POLYSTOMELLADÆ.



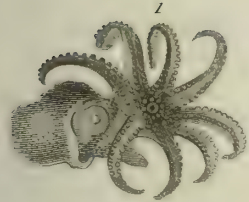
These shells being very small, they are all more or less magnified, in all the figures. a, represents the mouth, and the dotted lines, represent the theoretical form of the cells.

MOLLUSCA

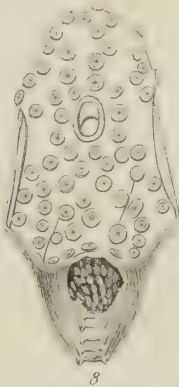
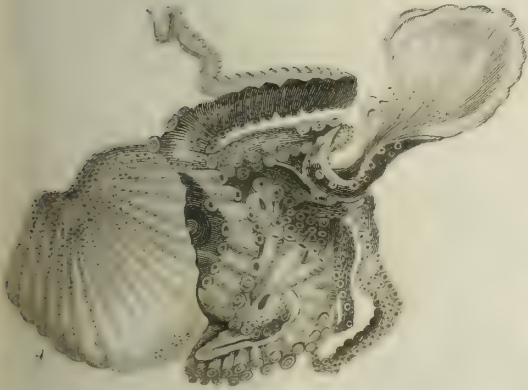
Class CEPHALOPODA.

Order OCTOPODA.

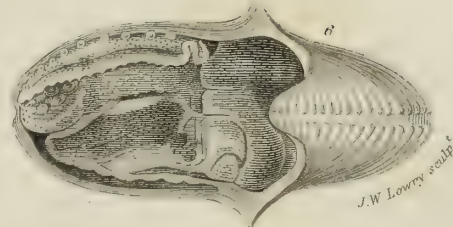
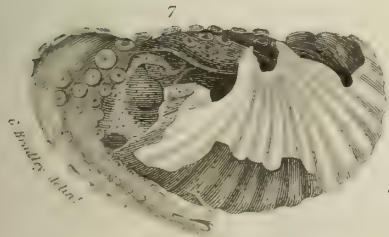
The Saïling Cuttle Fish from the Paper Nautilus.



1. 2. *Ocythoe Cranchii*
from *Argonauta raricosta*



3. 8. *Ocythoe antiquorum*
from *Argonauta Argo*



J.W Lowry sculp.

The animal out of the shell. 2. the front arm showing the dilatation. 3. the animal expanded showing the 8 arms the anterior pair being dilated at the end & the sides of the body marked by the ribs of the shell. 4. 5. the animal partly contracted. 6. the animal quite contracted in the shell. 7. 8. the side & top view of the animal partly contracted in its shell; the shell broken at the keel to shew the Eggs.

MOLLUSCA.

Class Gasteropoda. Order Palmonifera.

Arion Antiquorum.



Limax Variegatus.



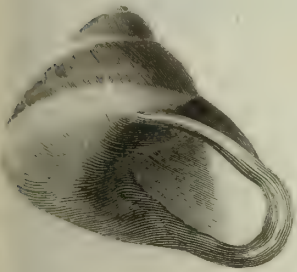
Testacella Maugei.



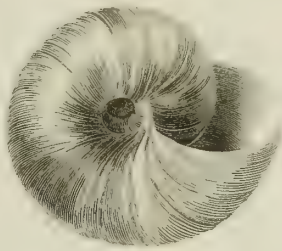
Helix Naticoides.



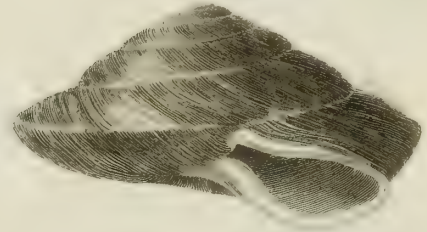
H. Japonica.



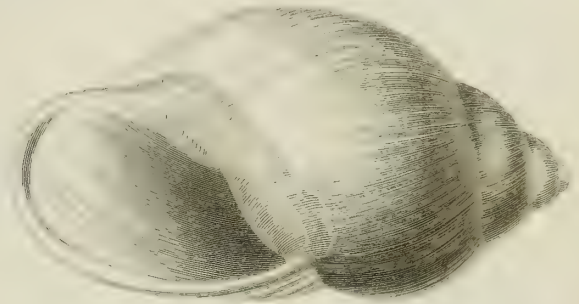
H. Algira.



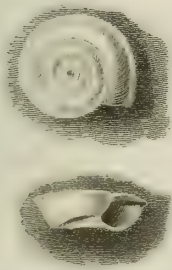
H. Caracolla.



Bulinus Ovatus.



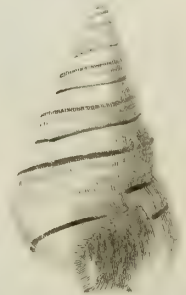
H. Albella.



H. Nux denticulata.



Achatina virginea.



Pupa.



Physa rivalis.



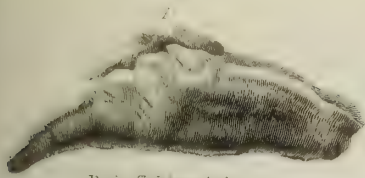
Clausilia.



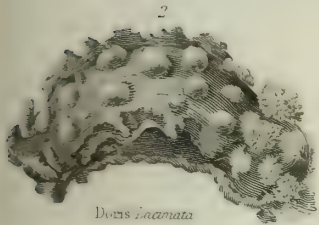
H. Epistylum.



Family I. DORIDÆ.



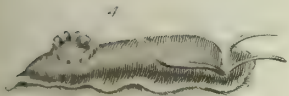
Doris trichata India



Doris lacunata



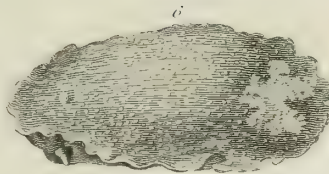
Doris nodosa



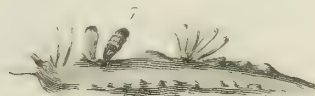
Doris pennigera



Doris aciculate



Doris tuberculata

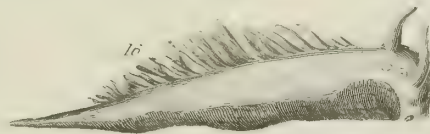


Doris ovata



Polyora quadricornis

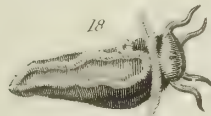
Fam. IV. FOLLIDÆ



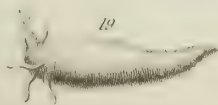
Eolida Cuvieri



Cavolina peregrina



18



19

18, 19. Follis torpides.



10 Orandorus Leachi

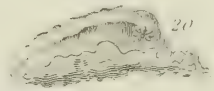


11



12

12 Peronia Mauritiana.



20

Doris atromarvata

Fam. V. GLAUCIDÆ



Glaucus Atlanticus



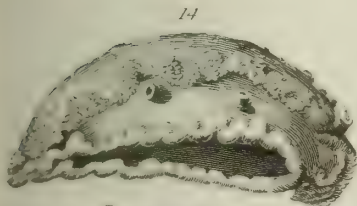
22

Laniogerus Elfordi

Fam. III. TRITONIADÆ.



13 Tritonia leponna



Tritonia limbergii



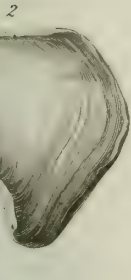
15

Sexilea pinguis

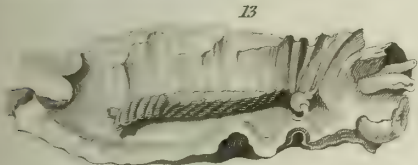
Family I. LAPLYSIADÆ. 1-3



1. *Lاپlysia punctata*



2, 3. *Dolabella Rumphii*



13. *Pleurobranchus Peronii*



14-15. *Lamellaria membranacea*

Family III. PLEUROBRANCHIDÆ 13-15.

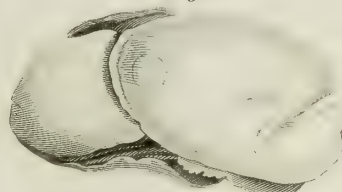
Family II. BULLIDÆ. 4-12



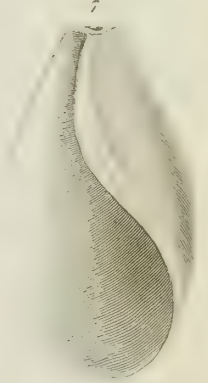
4-8. *Bullæa aperta*



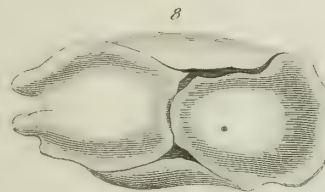
5. *Acera carnosa*



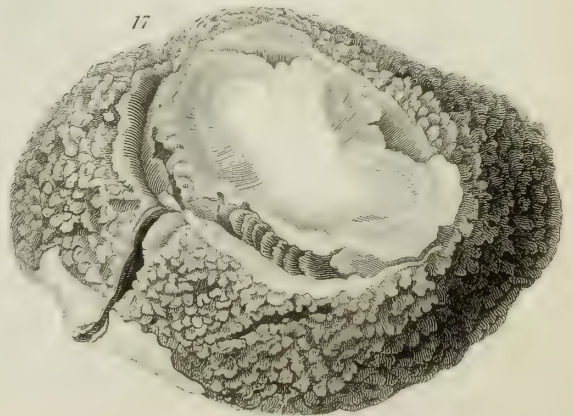
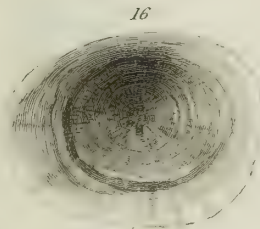
6-7. *Bullæa lignaria*



9-11. *Bullina Guamensis*



12. *Notarchus Cuvieri*

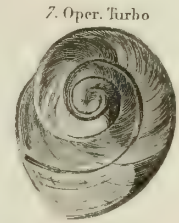
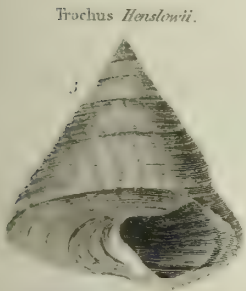
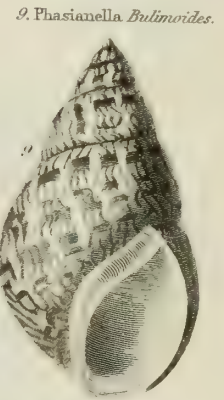
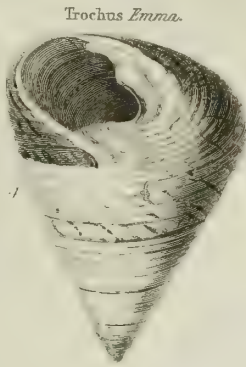
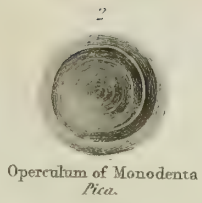


16-17. *Umbrella Indica*

Family IV. UMBRELLIDÆ 16-17

Family. I. TROCHIDÆ.

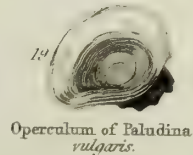
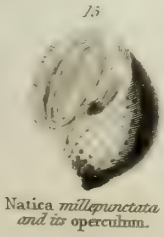
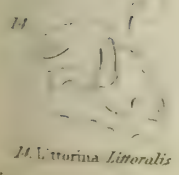
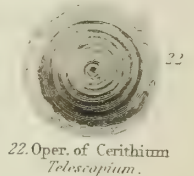
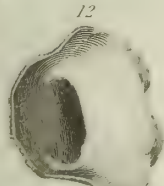
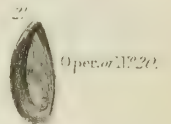
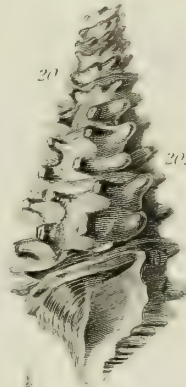
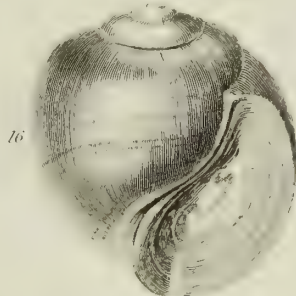
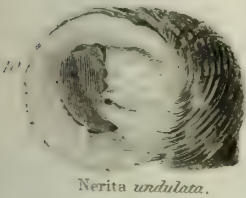
Fam. II. TURBINIDÆ.



Fam. III. NERITADÆ.

Fam. IV. AMPULLARIADÆ.

Fam. V. CERITHIADÆ.

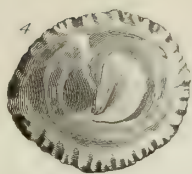


Family I. CREPIDULIDÆ.

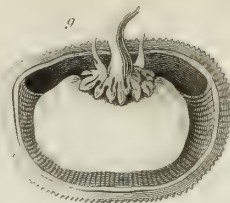
Fam. II. CAPULIDÆ.



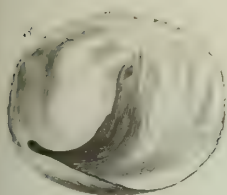
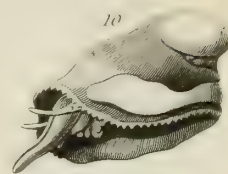
1.2. *Crepidula porcellana*.



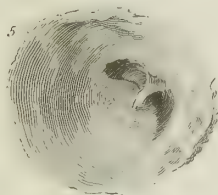
4. *Dispothea birmensis*.



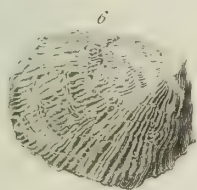
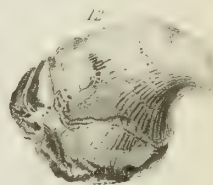
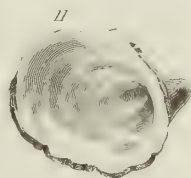
9.12. *Capulus Hungaricus*.



3. *Crepidula Peruviana*.



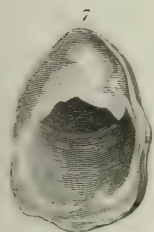
5.6. *Calyptra Neptuna*.



13.14. *Pileopsis nitida*.



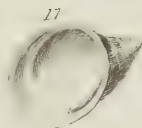
15.16. *Pileopsis crenulata*.



7.8. *Crepidula Unguis*.



Fam. IV. CRYPTOSTOMIDÆ.



17.19. *Hipponyx Cornucopia*.



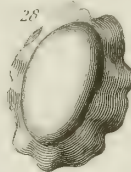
Fam. III. SIPHONARIADÆ.



25



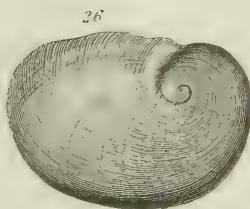
20.21. *Siphonaria radiata*.



Fam. V. SIGARETIDÆ.



29



26

25.26.27. *Cryptostoma Haliotidea*.



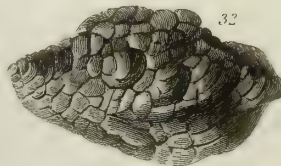
28.31. *Sigaretus Haliotideus*.



22. *Siphonaria gigas*.



31



32. *Coriocella nigra*.



27



23.24. *Gadlinia Afræ*.



24

MOLLUSCA



1 *Cyathia momus* Sav.



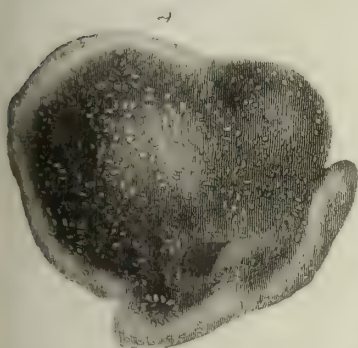
2,3 *Clavelina borealis*



7 *Cyathia canopus*



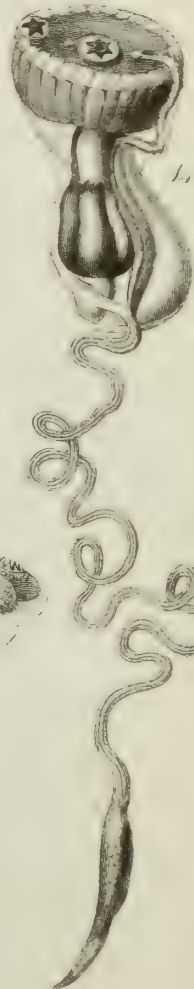
8,9 *Botryllus polyzyclus*



10,12 *Synoicum turjens*



4,6 *Distoma rubrum* Sav.



13,14 *Sigillina australis*



15,17 *Polychinum constellatum*



13,14 *Sigillina australis*

Order: Acanthopterygii.

Family: Percoides Trigloides Sciaenoides.

Genera: Perca, Trachinus, Mullus—Trigla, Dactylopterus—Sciaena, Amphiprion.



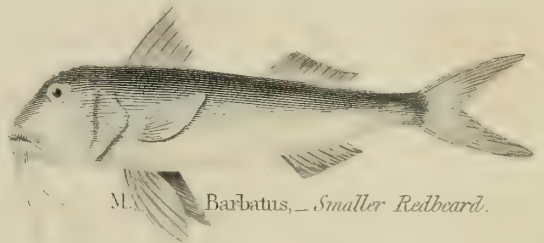
P. Fluviatilis, —Perch.



Trach. Draco, —Common Weaver.



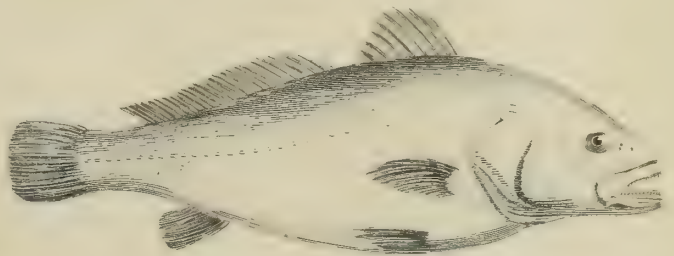
Trig. Gurnardus, Red Gurnard.



M. Barbatus, —Smaller Redbeard.



D. Mediterraneus



S. Umbra.



A. Eplippium, —Saddlerfish.

PISCES.

Order: Acanthopterygii.

Gen. Sargus, Dentex.—Maena, Smaris.—Chetodon, Brama.

Fam. Sparoides, Mænoides, Squammipomes.



D. Vulgaris.—Sea Rough.



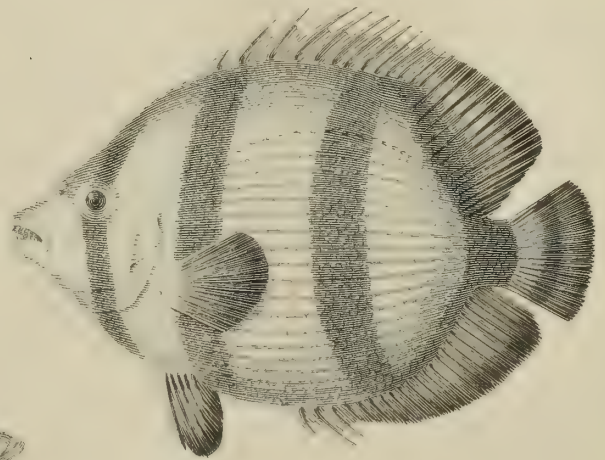
S. Annularis.—Ringed Sparus



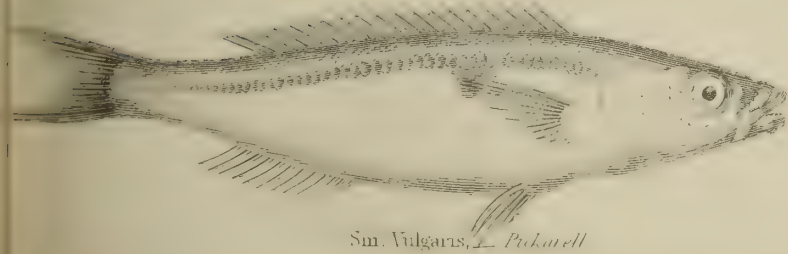
M. Vulgaris.—Cackrell



B. Anepos.



C. Striatus.—Streaked Chetodon.



Sm. Vulgaris.—Pekarell

Acanthopterygii

Fam: Scomberoides, Tunioides, Theutyes.

Gen: Scomber, Xiphias, Zeus, — Trichiurus, Stylephorus, Cepola, — Amphacanthus.



S. Scomber, — Mackerell.



X. Gladius, — Swordfish.



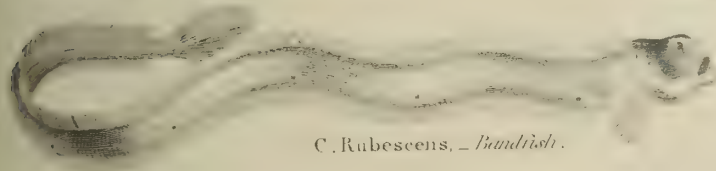
A. Guttatus.



Z. Faber, — Dorce.



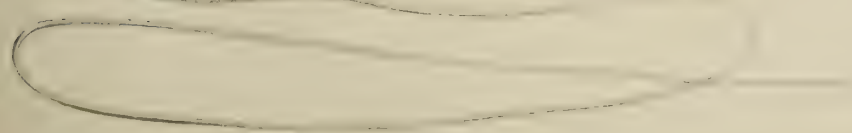
T. Lepturus.



C. Rubescens, — Bandfish.



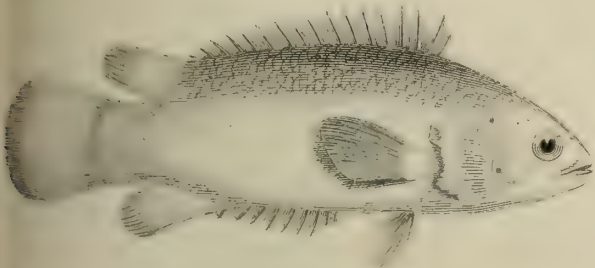
Styl. Chordatus.



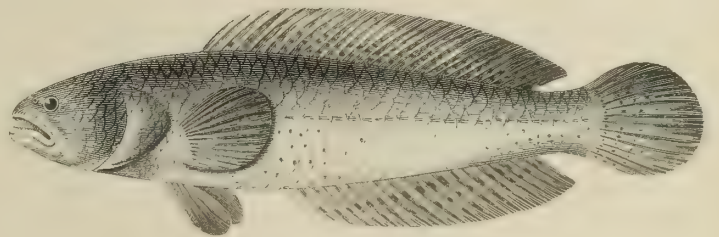
Order Acanthopterygii.

Family. Labyrinthiformes, Mugiloides, Gobioides.

Genera. Anabas, Ophicephalus - Mugil - Blemnius, Anarrhichas, Gobius.



Anab. Testudineus



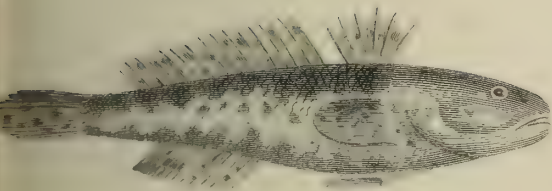
O. Punctatus, - Dotted Snakehead.



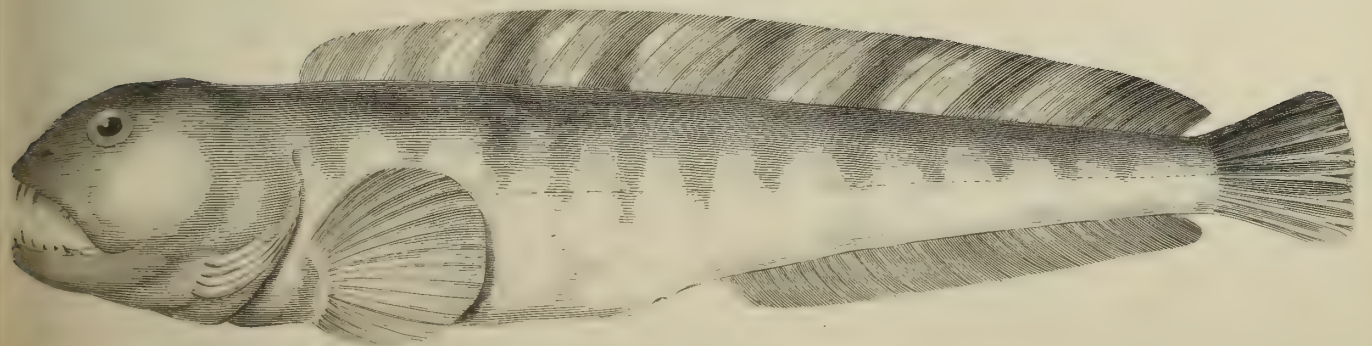
M. Cephalus, - Mullet.



B. Ocellaris, - Butterfly-fish.



G. Nigra, - Black Goby.



Anarr. Lupus, - Wolf-fish.

W. Gilchrist del.

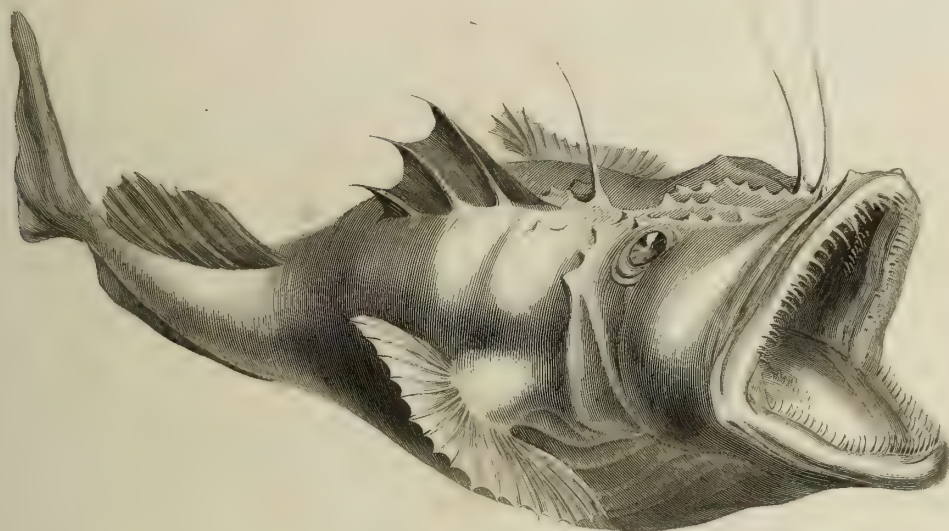
J.W. Lowry sculp.

PISCES.

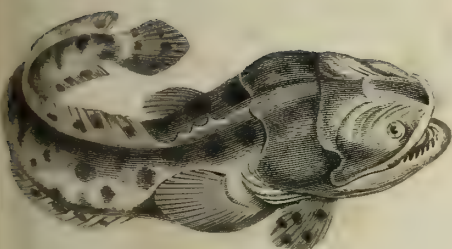
Order. Acanthopterygii.

Family. Pectoralipedes. Labroides. Anlostomes.

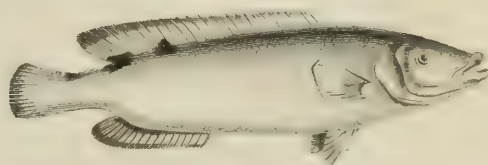
Genera. Lophius. Barrachus. Labrus. Scarus. Fistularia. Centriscus.



Loph. Piscatorius - Common Angler



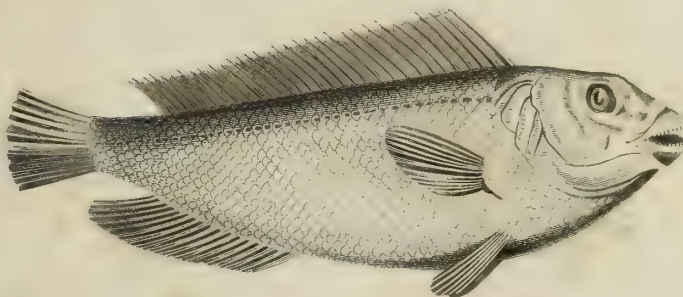
B. Surinamensis - Surinam Toad-fish.



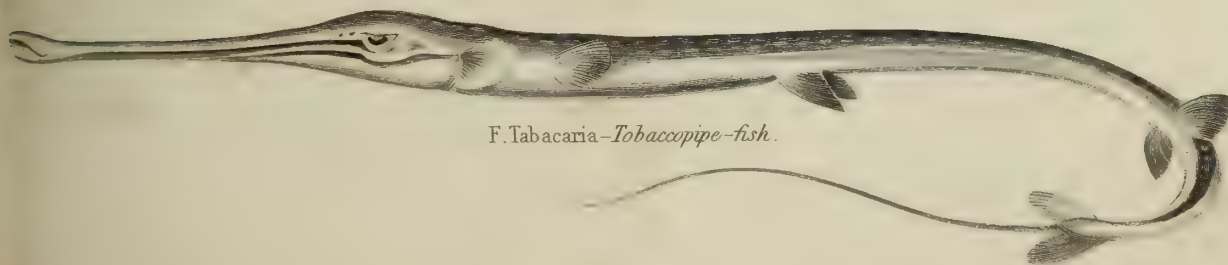
Lab. Carneus - Red Wrasse



C. Scolopax - Tobaccopipe-fish.



S. Creticus - Gretan Scarus.



F. Tabacaria - Tobaccopipe-fish.

J.W. Lowry, sculp.

PISCES.

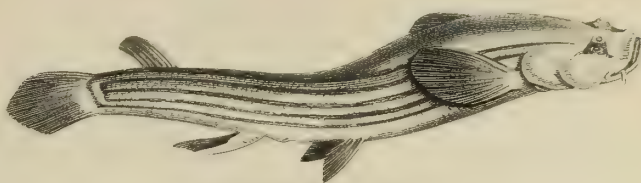
Order: Malacopterygii. Abdominales.

Family: Cyprinoides. Esocides. Siluroides.

Genera: Cyprinus. Cobitis. Anableps. Esox. Exocoëtus. Silurus. Pimelodes. Loricaria.



Cyp. Carpio - *Carp*.



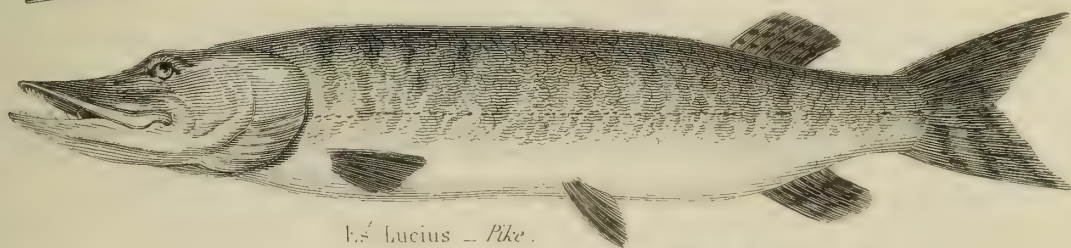
A. Tetrophthalmus - *Four eye*.



Cob. Fossilis - *Muddy Loach*.



Ex. Exiliens - *Flying fish*.



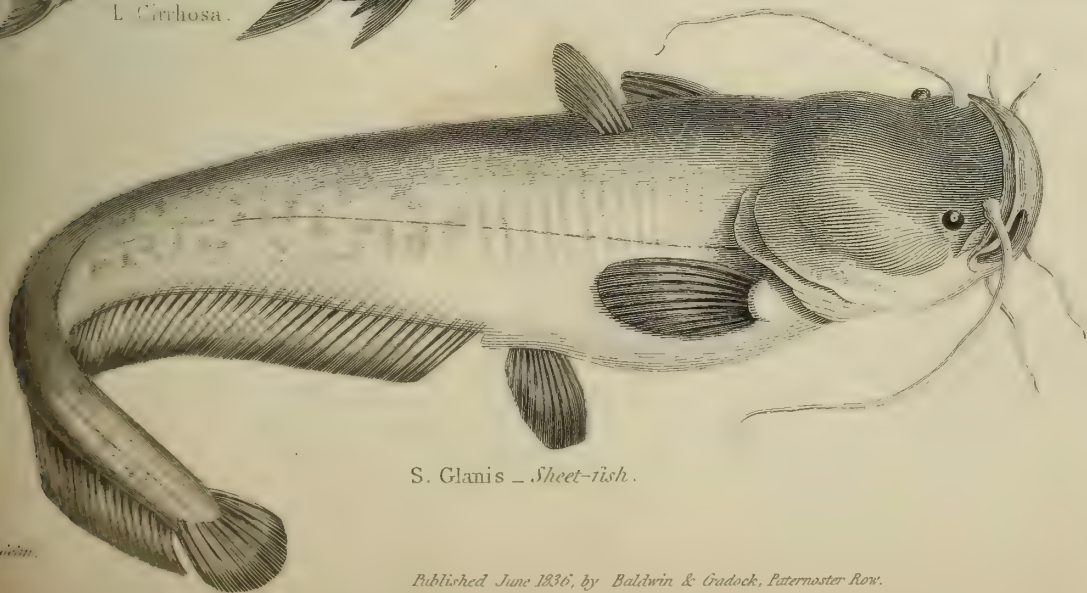
E.s. Lucius - *Pike*.



L. Cirrhosa.



P. Cyclopus.

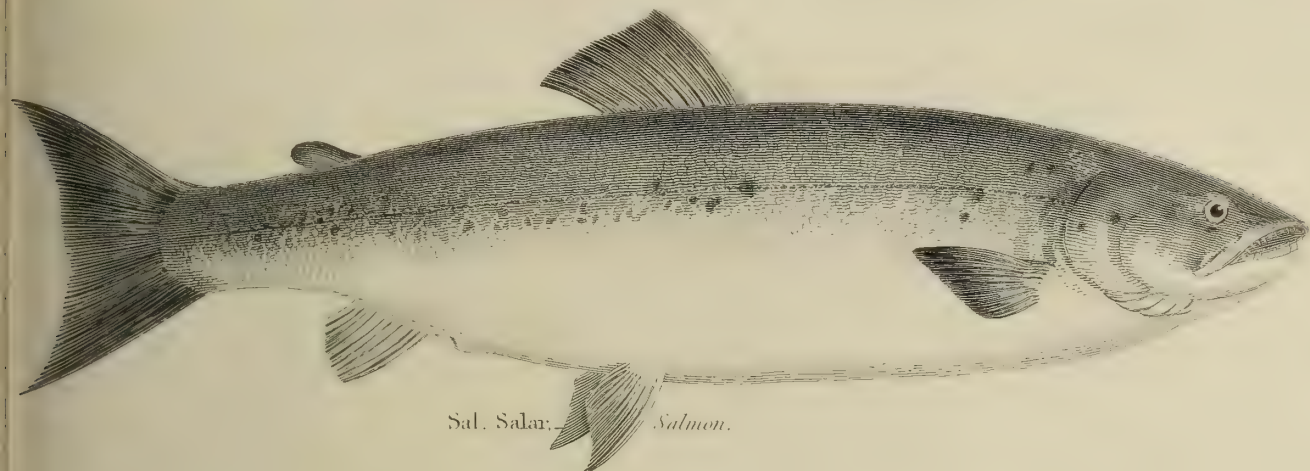


S. Glanis - *Sheat-fish*.

Order: Malacopterygii Abdominals.

Genera. Salmo, Argentinus, Saurus, — Chupea, Gnathobolus, Polypterus.

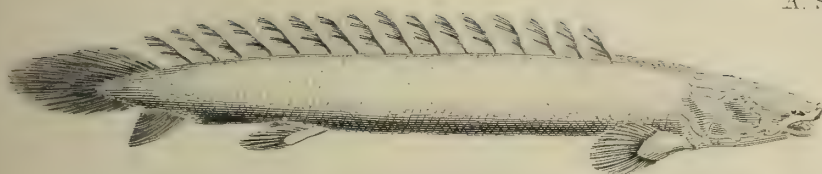
Family: Salmonides, Clupeoides.



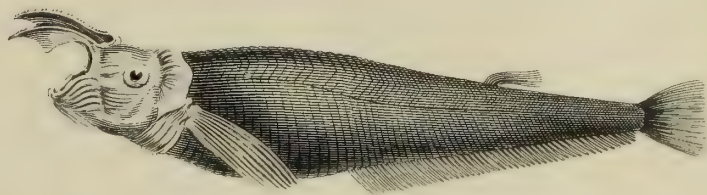
Sal. Salar. — Salmon.



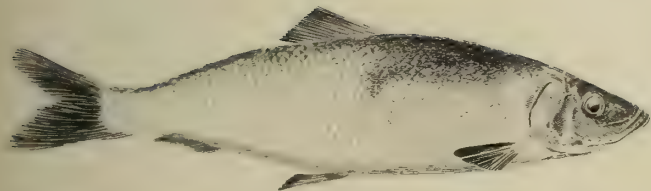
A. Sphyraena.



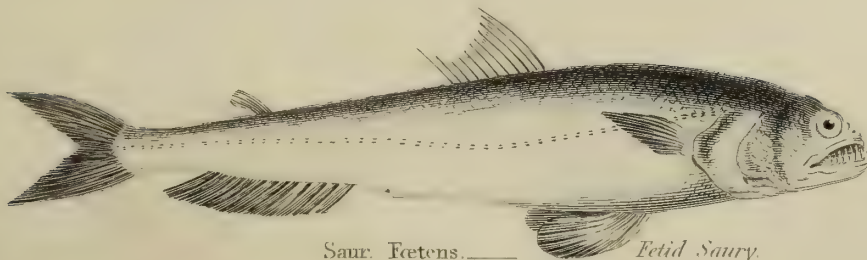
P. Bichir.



G. Aculeatus.



C. Harengus. Herring.



Saur. Fetens. — Fetid Saury.

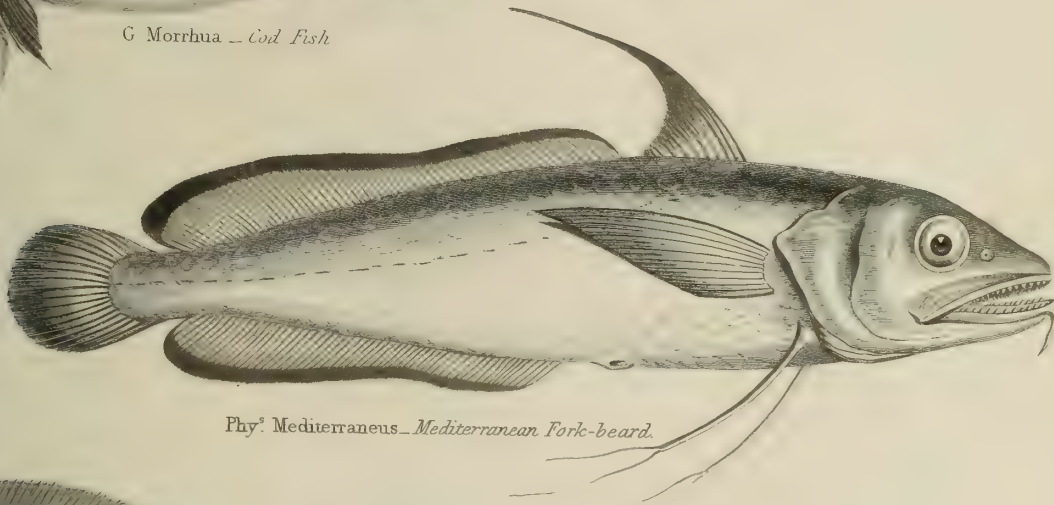
Order: Malacopterygii Subbrachiales.

Family: Gadoides, Pleuronectides, Discoboloides.

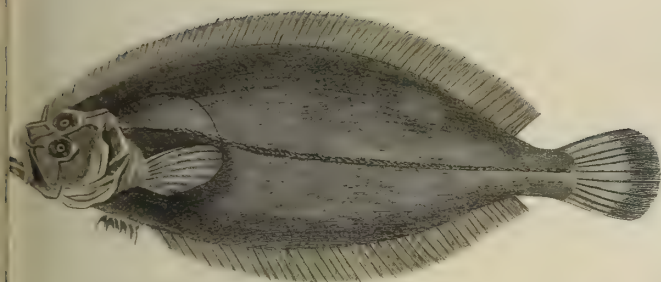
Genera. Gadus, Phycis, Platessa, Rhombus, Solea, Lepidogaster, Echenis.



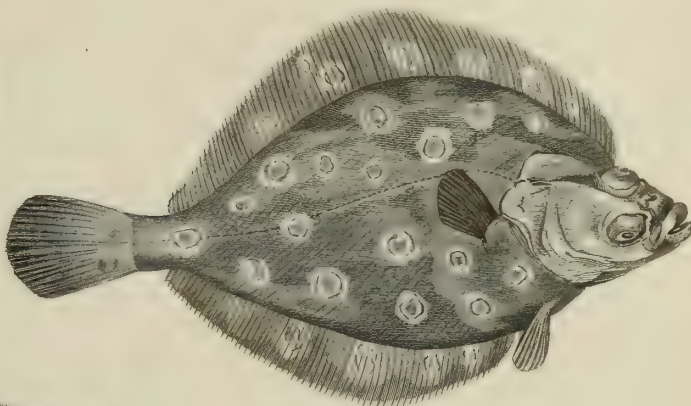
G. Morrhua - Cod Fish



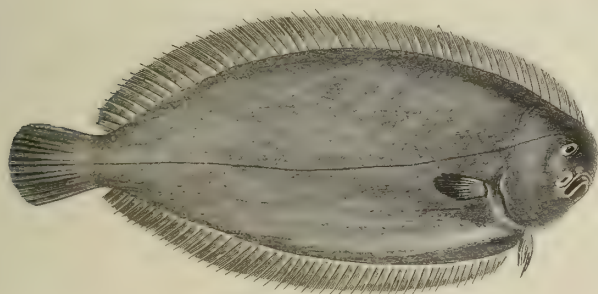
Phy^s. Mediterraneus - Mediterranean Fork-beard.



R. Megastoma - Whirt.



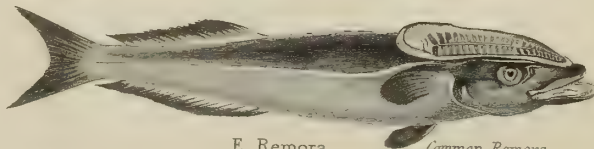
Plat^a. Vulgaris - Plaice.



S. Vulgaris - Sole.



L. Cornubiensis - Cornish Sucker.



E. Remora. Common Remora.

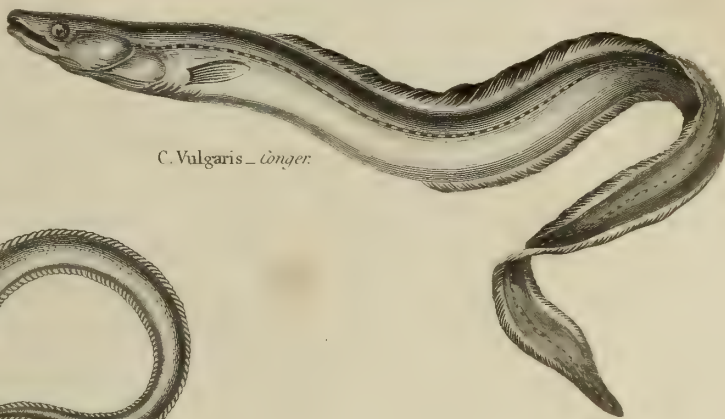
Order: Malacopterygii Apodes.

Family: Anguilliformes.

Genera: Anguilla, Conger, Ophisurus, Muræna, Sphagebranchus, Saccopharynx, Gymnonotus, Leptocephalus, Ophidium, Ammodytes.



Ang. Acutirostris - Sharpnosed Eel.



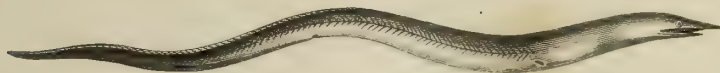
C. Vulgaris - Conger.



Ophis. Hyala - Glassy Ophisure.



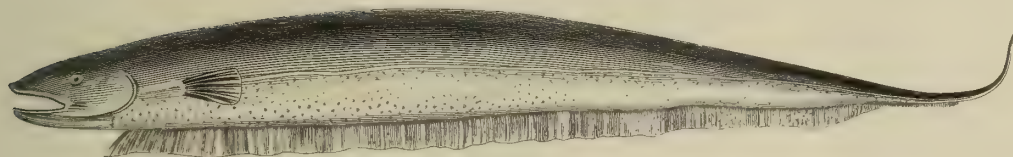
M. Meleagris



Sphag. Rostratus.



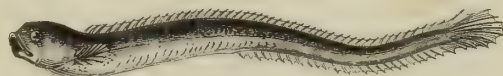
Sacc. Harwoodii.



G. Equilabianus - Everlipped Gymnote.



L. Mornsii - Anglesea Morris



Ophid. Imberbe - Beardless Ophidium.



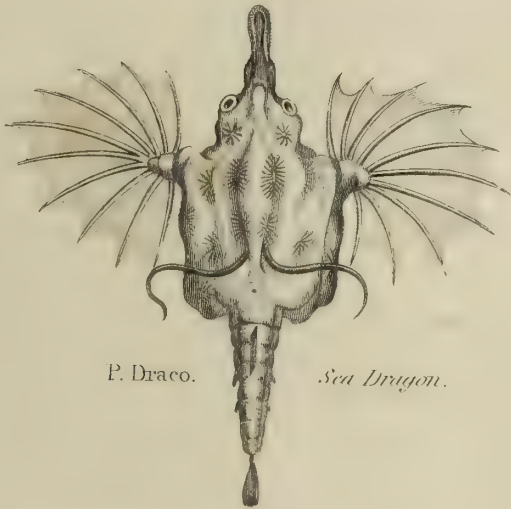
Ammod. Lancea - Sand-Lancee.



Genera. Syngnathus. Pegasus.



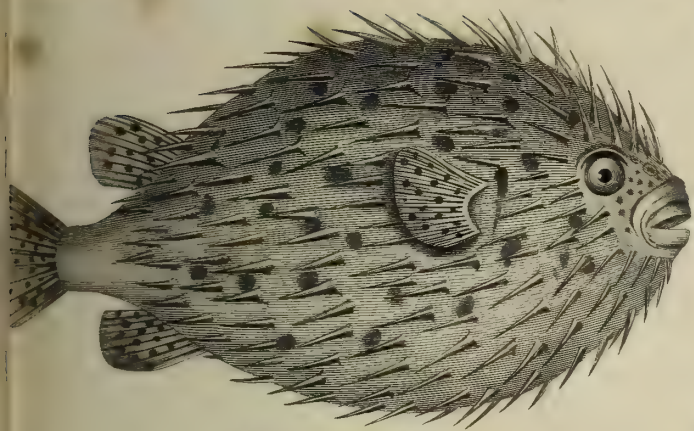
S. Typhle. *Acolle-fish.*



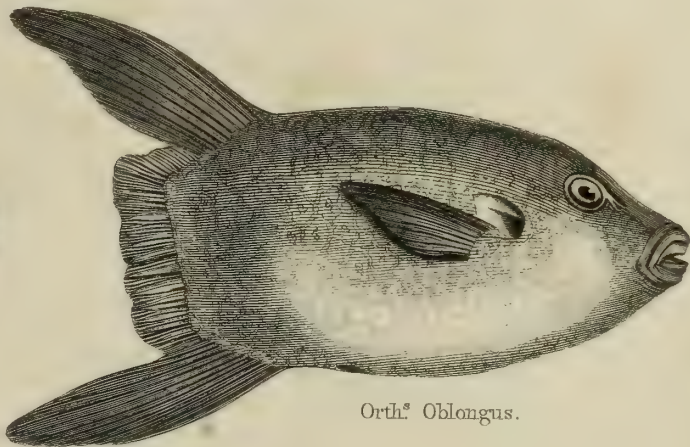
P. Draco. *Sea Dragon.*

Family. Gymnodontes. Sclerodermes.

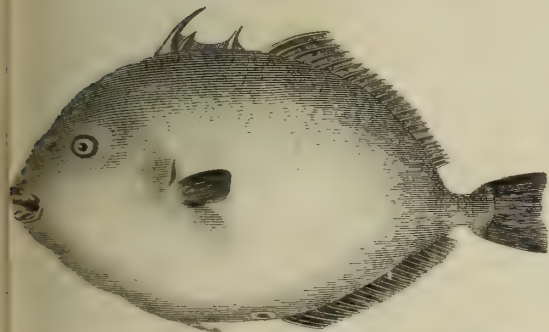
Genera. Diodon, Orthogoriscus, Balistes, Ostracion.



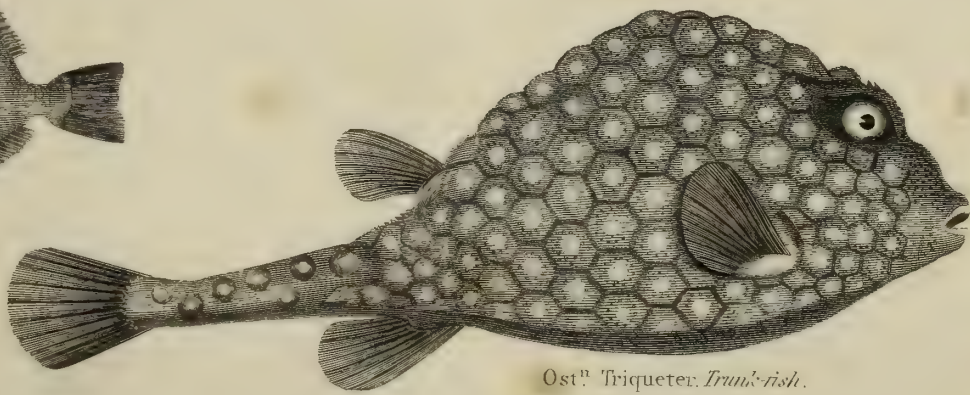
D. Hystrix. *Round Diodon*



Orth.^s Oblongus.



B. Capriscus. *Mediterranean Pufferfish.*



Ost.ⁿ Triquetus. *Trunk-fish.*

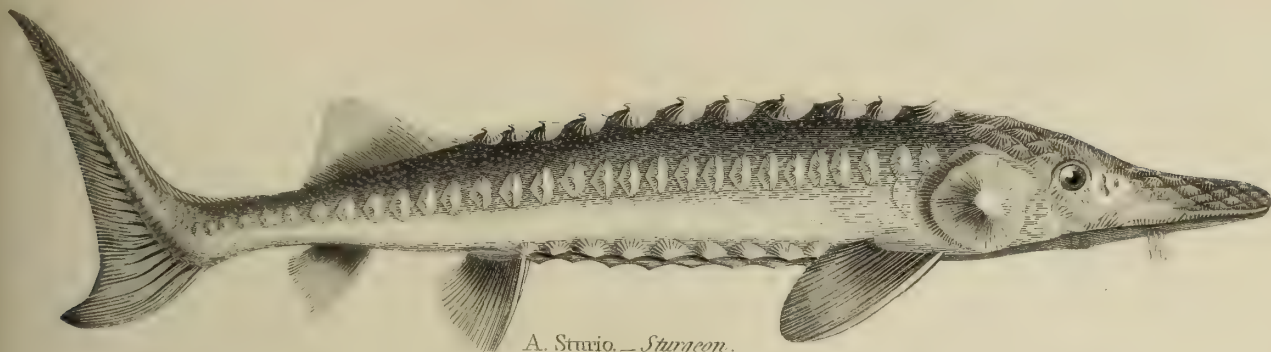


PISCES.

Chondropterygii branchiis liberis.

Genera. Accipenser, Polyodon, Chimaera

Family. Sturionides

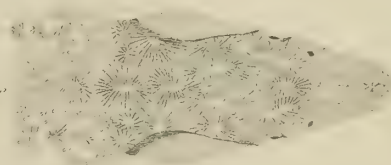


A. Sturio. — Sturgeon.

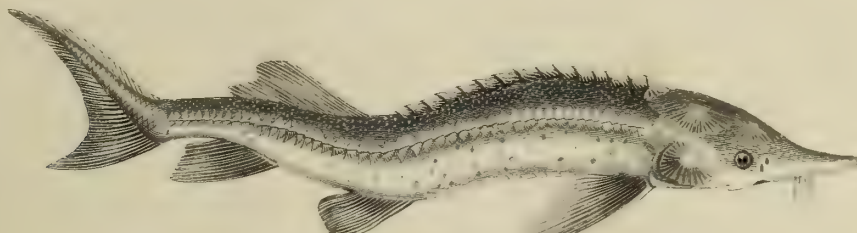
Head of Sturgeon.



Under Surface



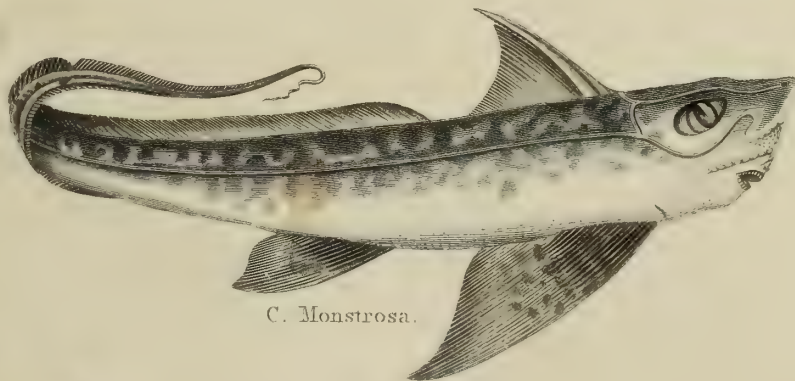
Upper Surface



A. Ruthemus. Sturlet.



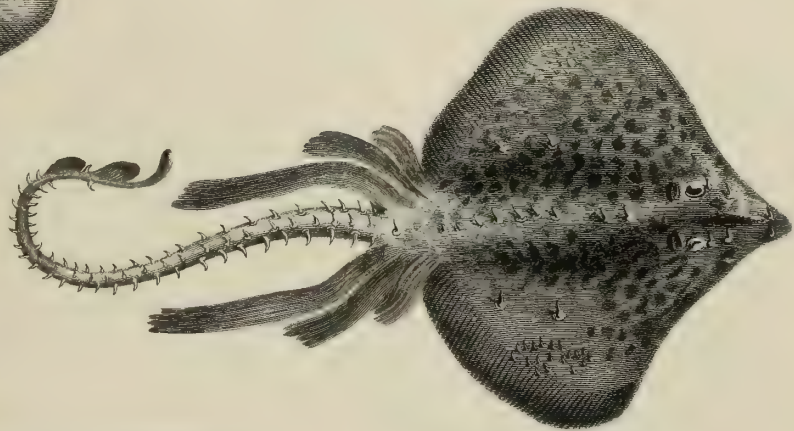
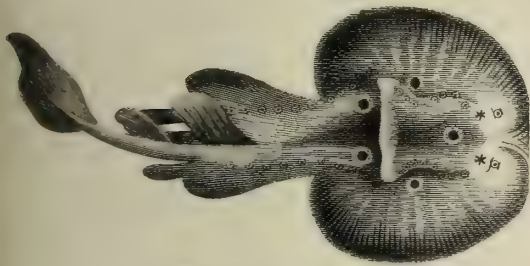
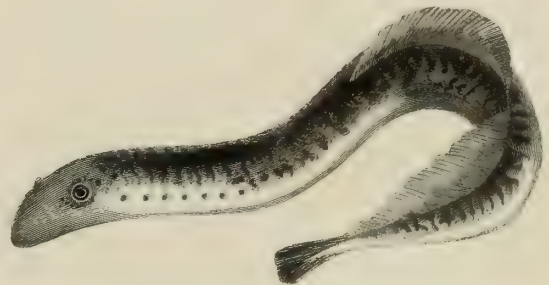
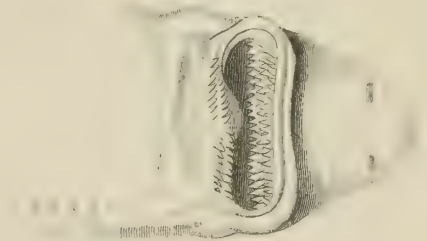
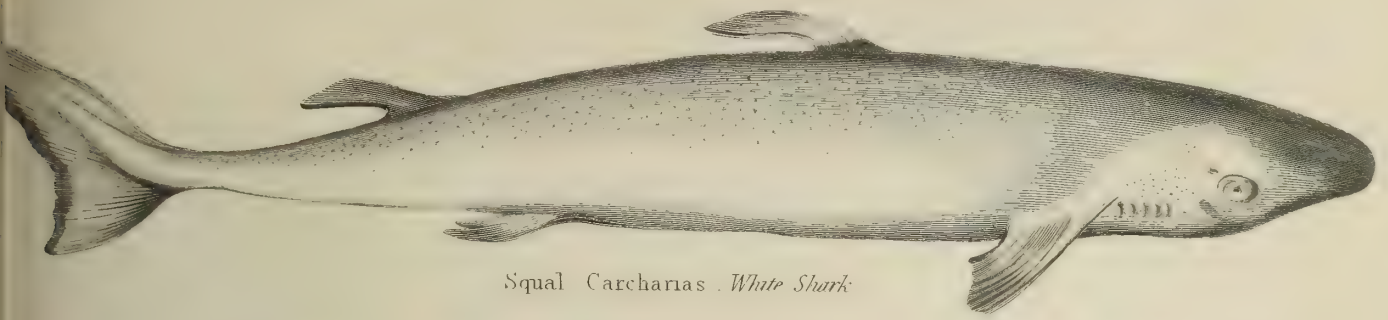
P. Fohun.



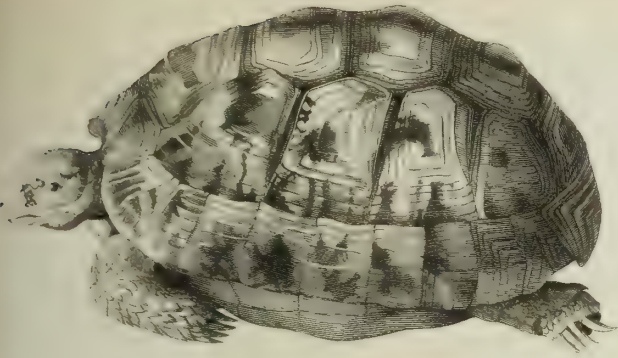
C. Monstrosa.



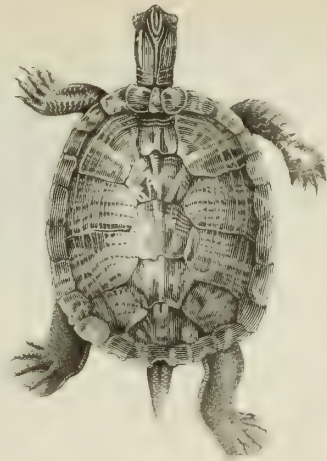
C. Callorhynca



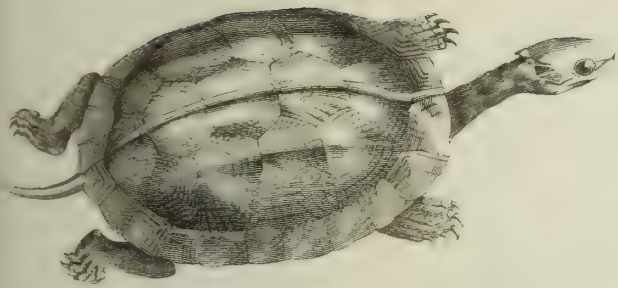
Genera Testudo, Emys, Sternothercus, Chelonia, Chelys, Trionyx.



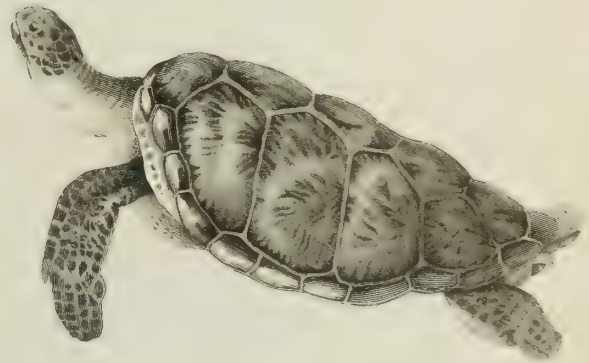
T. Graeca. Common Tortoise



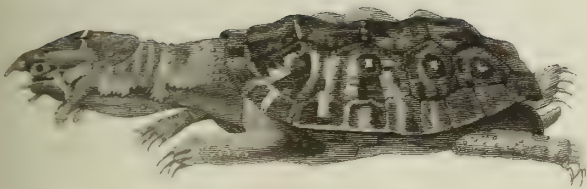
E. Scripta. Witten Tortoise.



S. Trifasciatus. Three striped Box Tortoise



C. Virgata. Striped Tortoise



C. Matamora. Fimbriated Tortoise



T. Niloticus. Nilotic three toed Tortoise

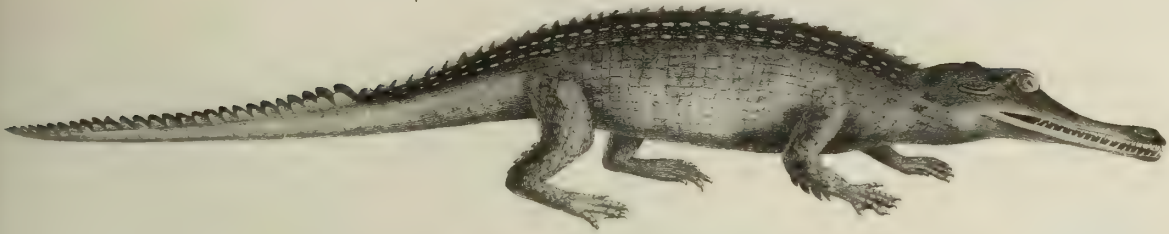
Elongation of the snout

REPTILIA

Order Sauria

Family Crocodylida

Genus Crocodilus



1. *C. Longirostris*. Indian Crocodile



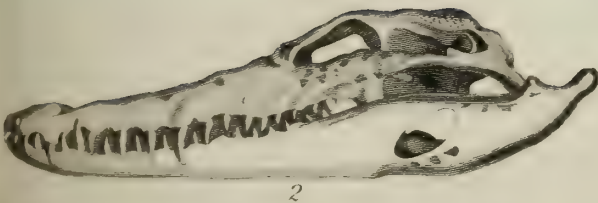
2. *C. Vulgaris*. Nilotic Crocodile



3. *C. Sclerops*. Spectacled Alligator



Heads of the above



J.W. Leach del.

REPTILIA

Order, Sauria

Family Lacertida
Iguanida

Genera, Tupinambis, Lacerta, Stellio, Draco, Iguana, Anolis.

Fig. 1



T. Nilotica. Nilotic Ouaran

2



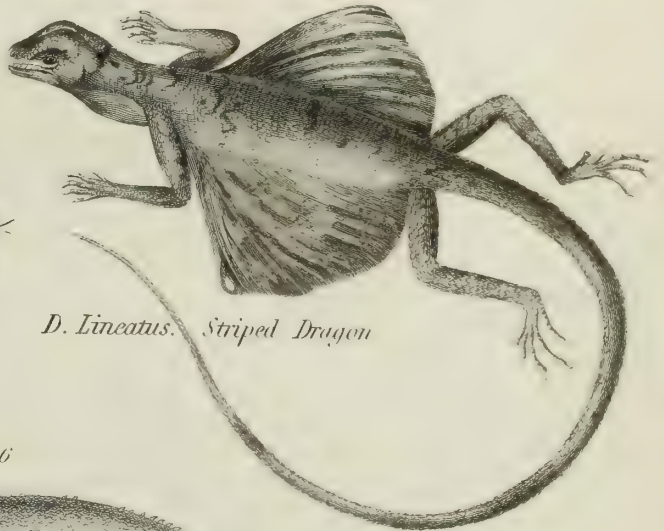
L. Ocellata. Ocellata Green Lizard

3



S. Vulgaris. Common Stellione

4



D. Lineatus. Striped Dragon

5



I. Tuberculata. Common Guana

6



A. Capensis. Cape Anolis

J.W. Lowry, sculp.

Order. Sauria.

Fam. Stellionida, Chamælionida, Scincoida.

Gen. Stellio, Chamælio, Scincus, Seps, Bipes, Chirotes.



St. Egyptiacus - *Egyptian Stellion*.

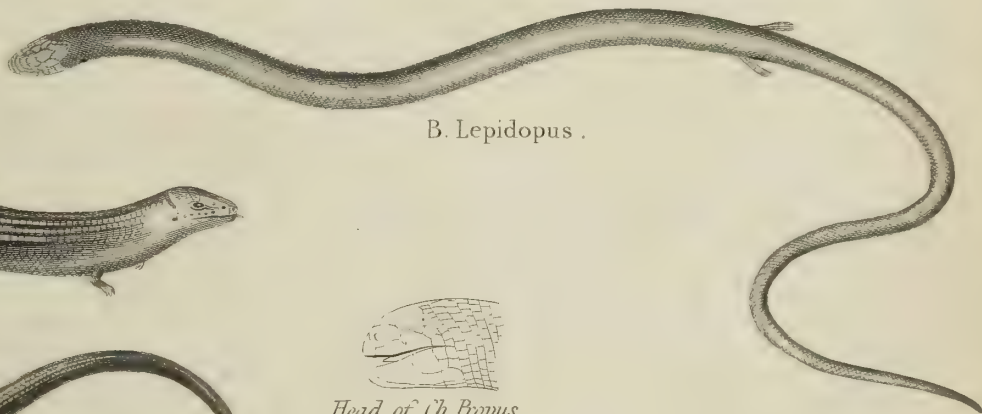


Cham. Vulgaris — *Common Chameleon*.

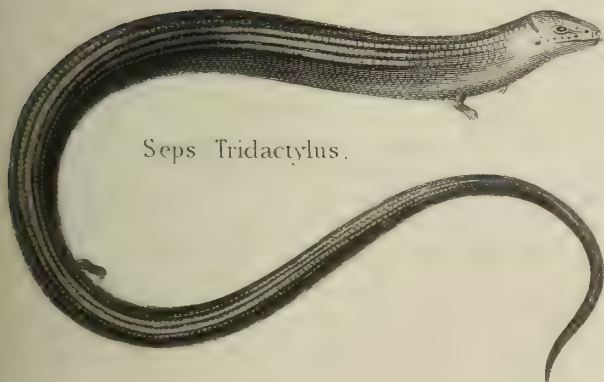
Head of Scink.



Scinc. Officinalis — *Official Scink*.



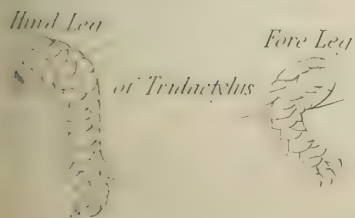
B. Lepidopus.



Seps Tridactylus.



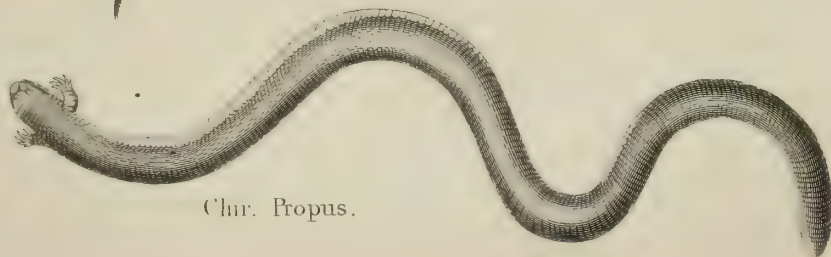
Head of Ch. Propus.



Hind Foot

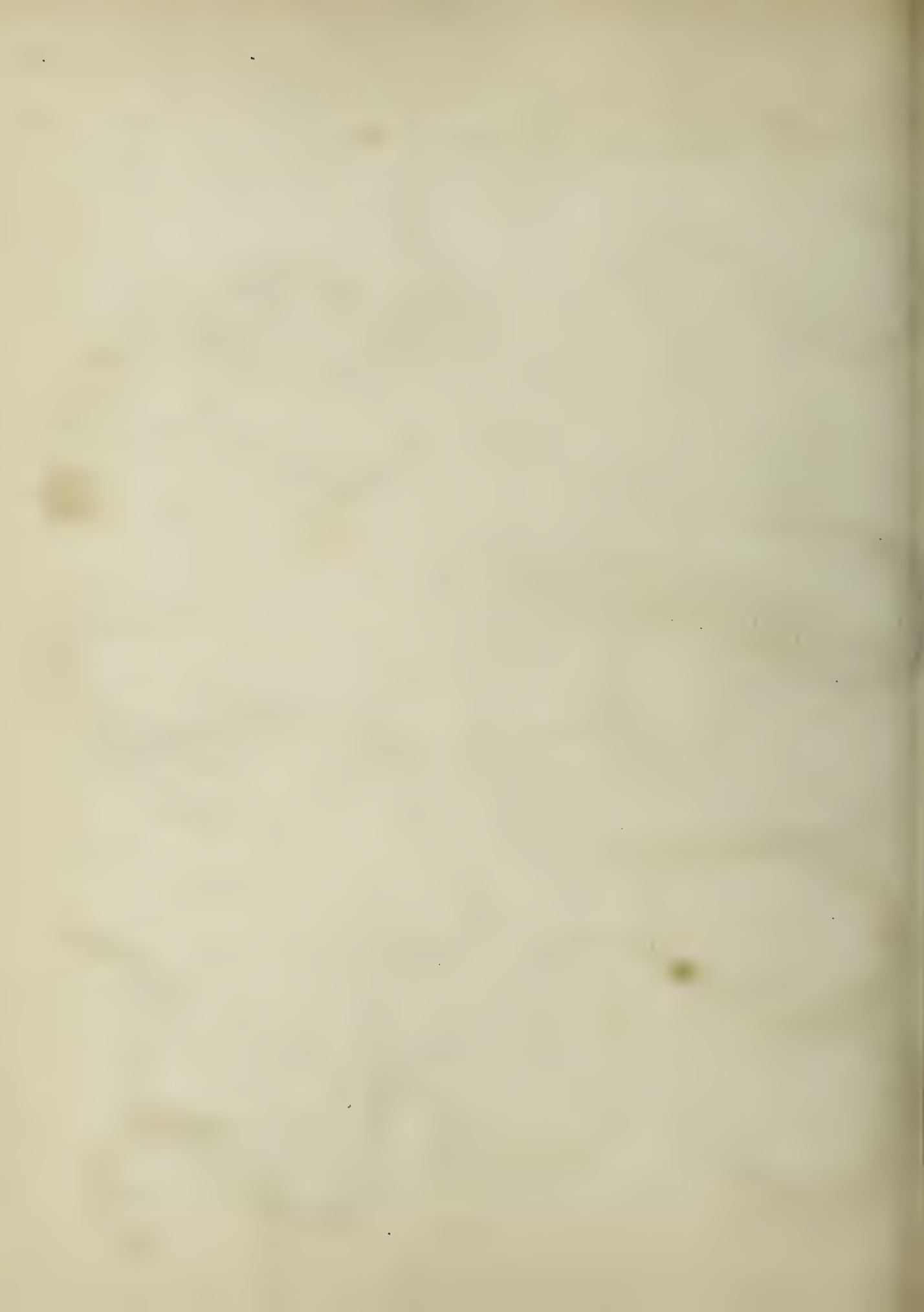
Fore Foot

of Tridactylus



Chir. Propus.

J. W. Lowry sculp



Amphisbana, *Tortrix*, *Boa*, *Python*, *Acrochordus*

Families *Anguiformia* & *Serpentia*.

phida



Asp. Pallasii



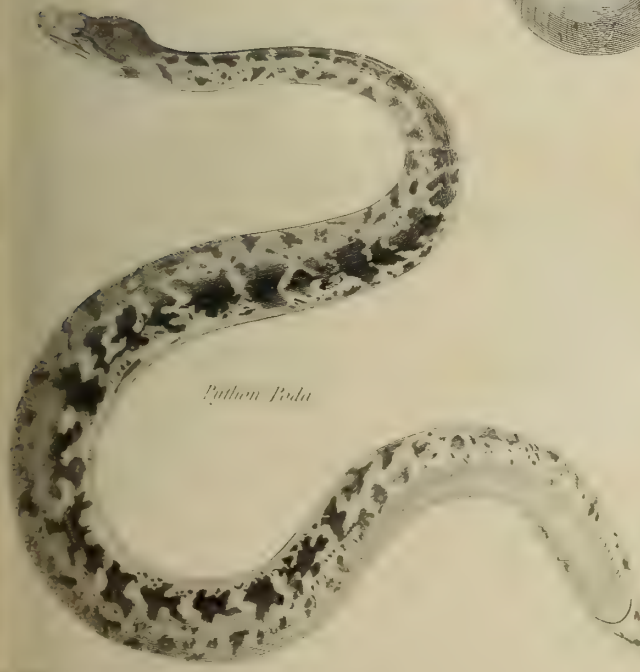
Amph. Alba



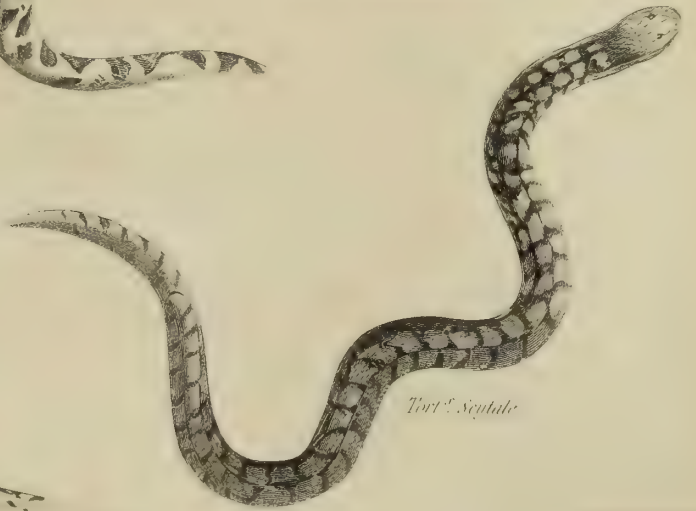
B. Constructor



Acro. Javanensis



Python Poda



Tort. Septata

J. W. G. S. 1833

REPTILIA

Genera . Crotalus, Viper, Cerastes, Naja, Trimeresurus, Belamides, Pseudoboa, Cæcilia

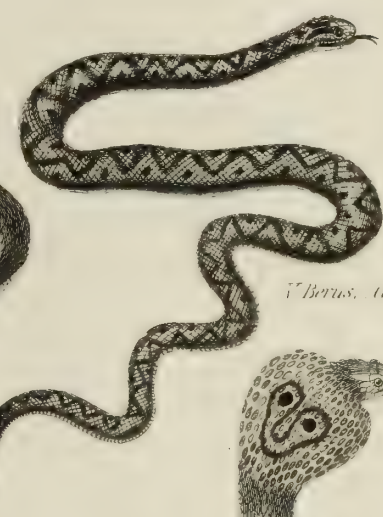
PLATE, 6.

Ophidia .

Family, Venenosa, Xuda .



Crot. Horridus, - Banded Rattle Snake



V. Berus, Common Viper



Cera. Hasselquistii



N. Lutescens, Spectacled Snake



T. Microcephalus



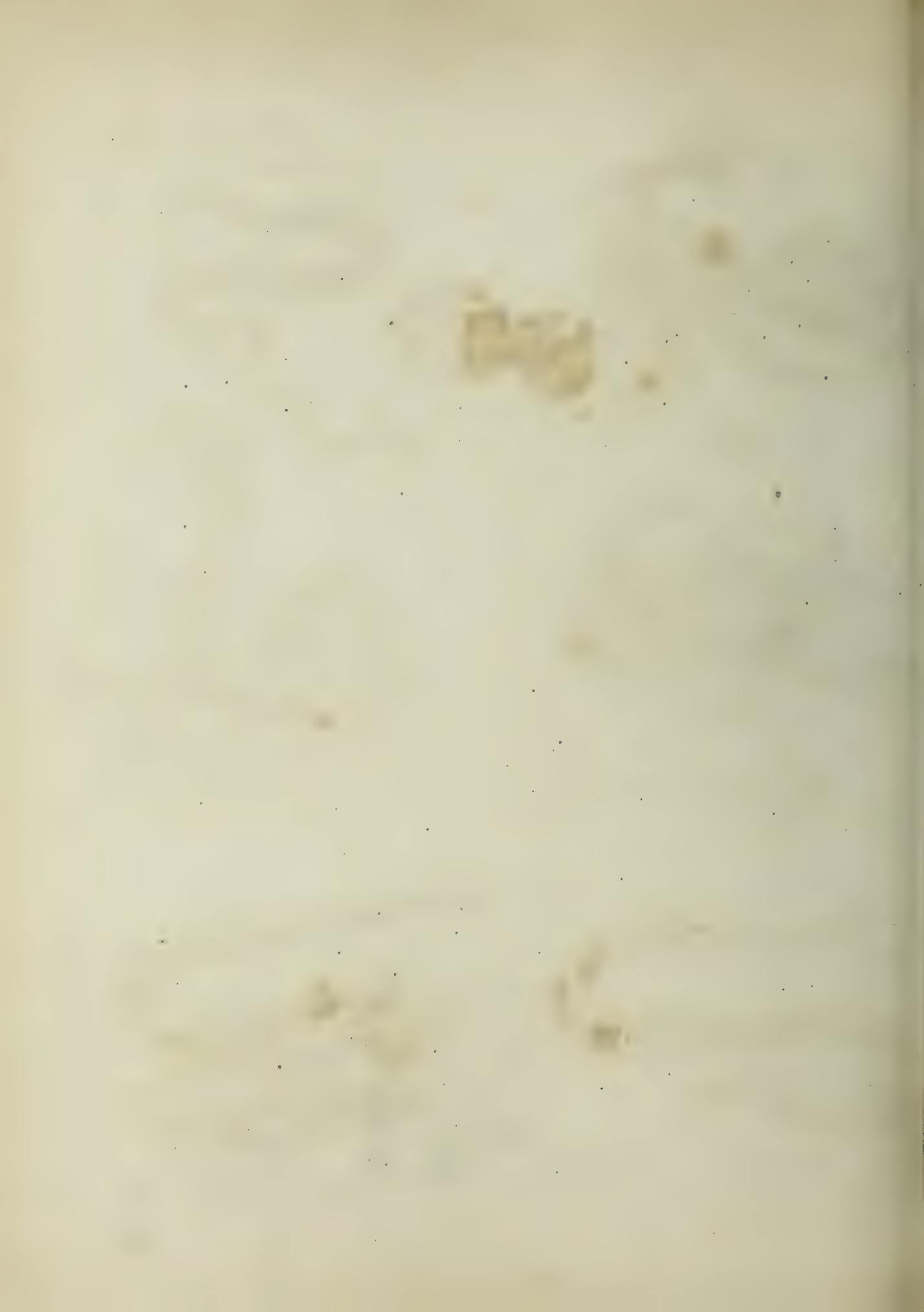
Boa. Moor. Blackbacked Sea Snake



Pseud. Fasciata



Cæc. Glutinosa



REPTILIA

PLATE 7.

Family. Ecaudata.

Order. Batrachia

Genera. Rana, Ceratophis, Hyla, Bufo, Pipa.



C. Varus, — Horned Frog



R. Esculenta, — Edible Frog.



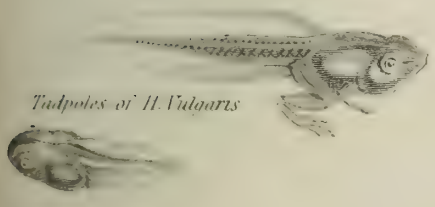
Tadpole of *R. Esculenta*.



B. Vulgaris, — Common Toad.



B. Bombina, — Yellow bellied Toad.

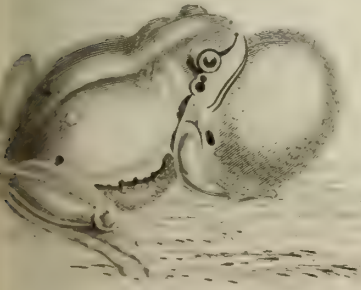


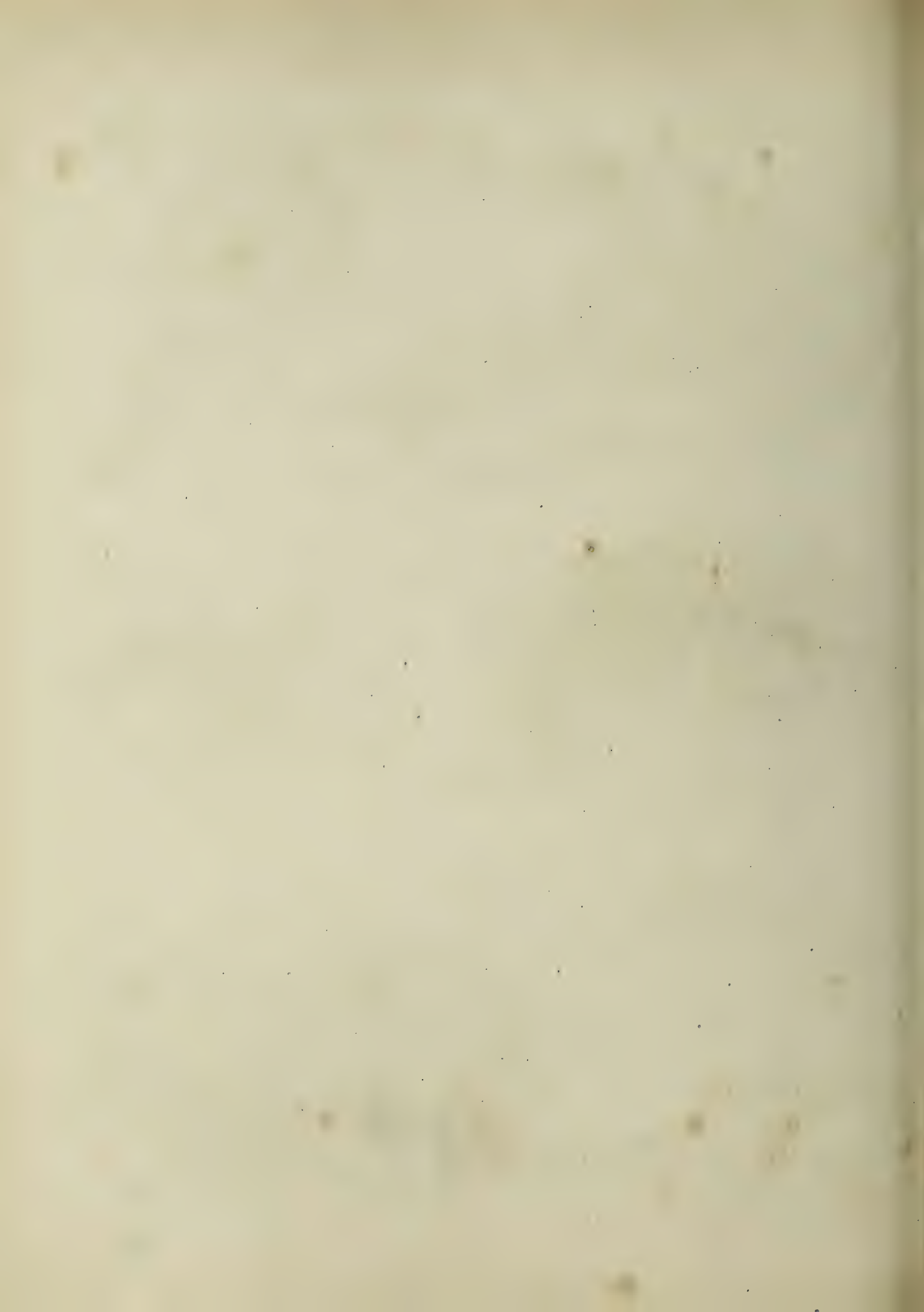
Tadpoles of *H. Vulgaris*

P. Surinamensis, Surinan Pipa.



H. Vulgaris — Tree Frog





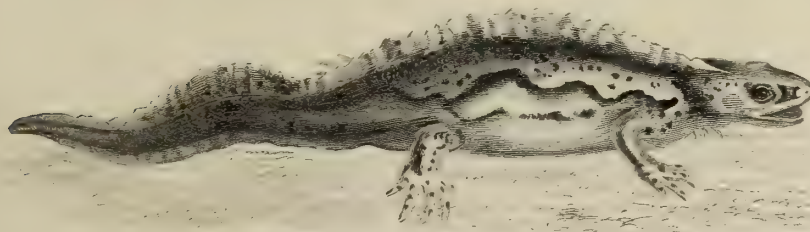
REPTILIA

Genera. Salamandra, Triton, Salamandrops, Siredon, Proteus, Siren.

PLATE, 8

Order: Batrachia.

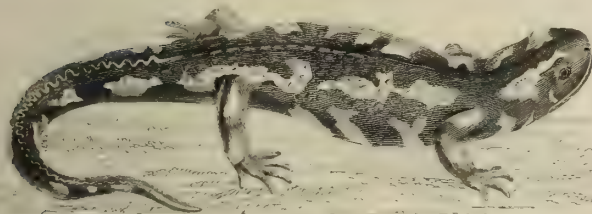
Family, Caudata



T. Marmorata, — Marbled Newt.



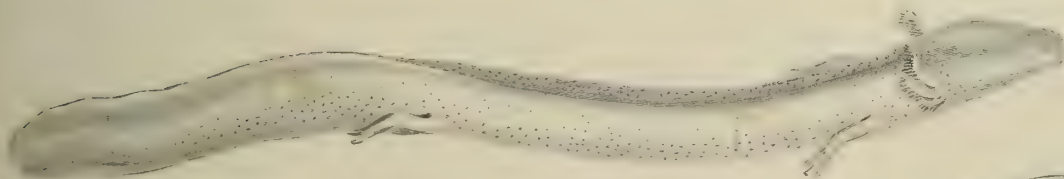
S. Alleghaniensis, — Alleghany Salamandrops.



S. Maculosa, — Spotted Salamander.



S. Axolotl, — Axolotl.



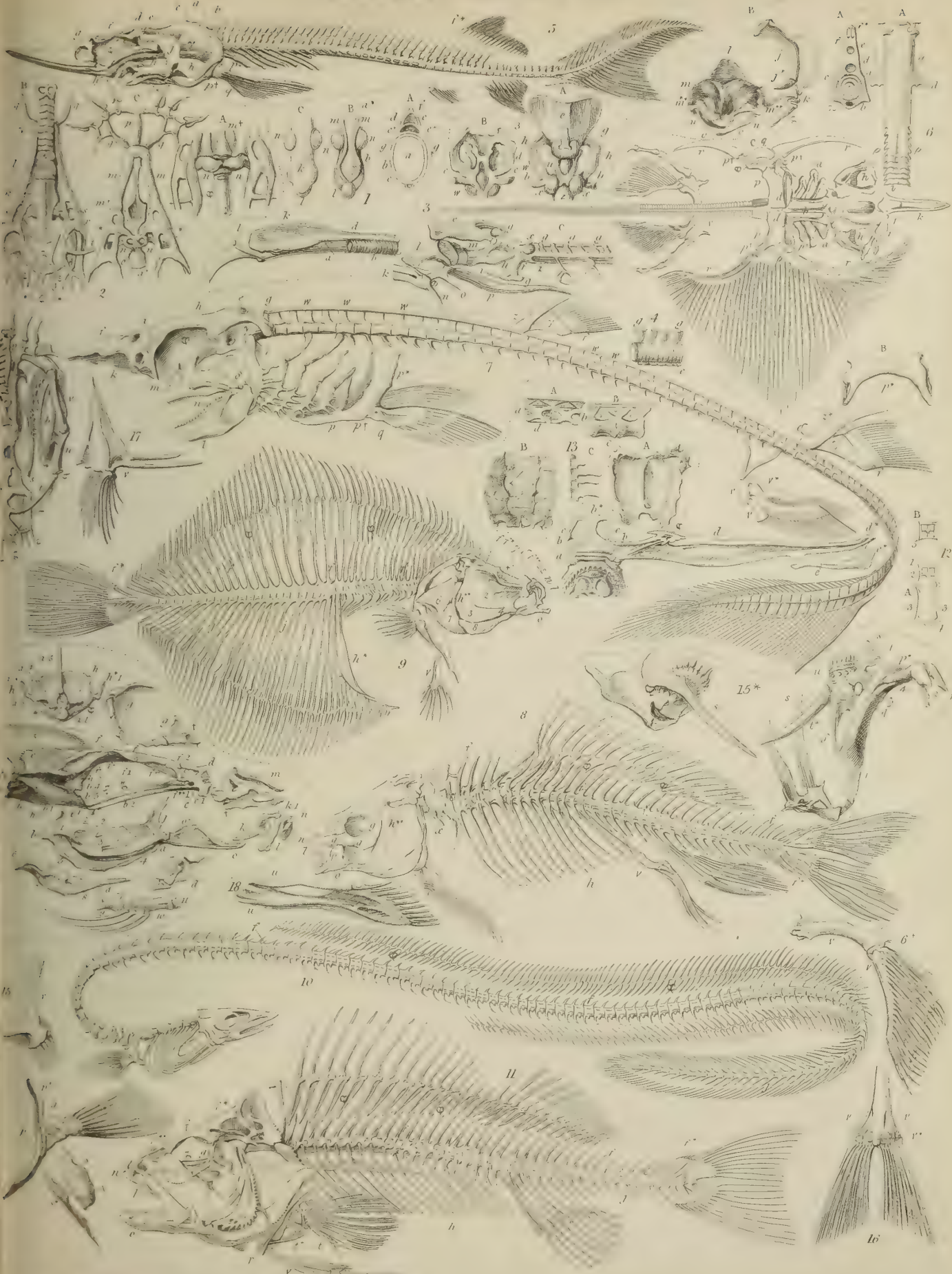
P. Anguinus, — Snake-like Proteus.



S. Lacertina, — Lizard-like Siren.

Del. Sonerby, sculp.

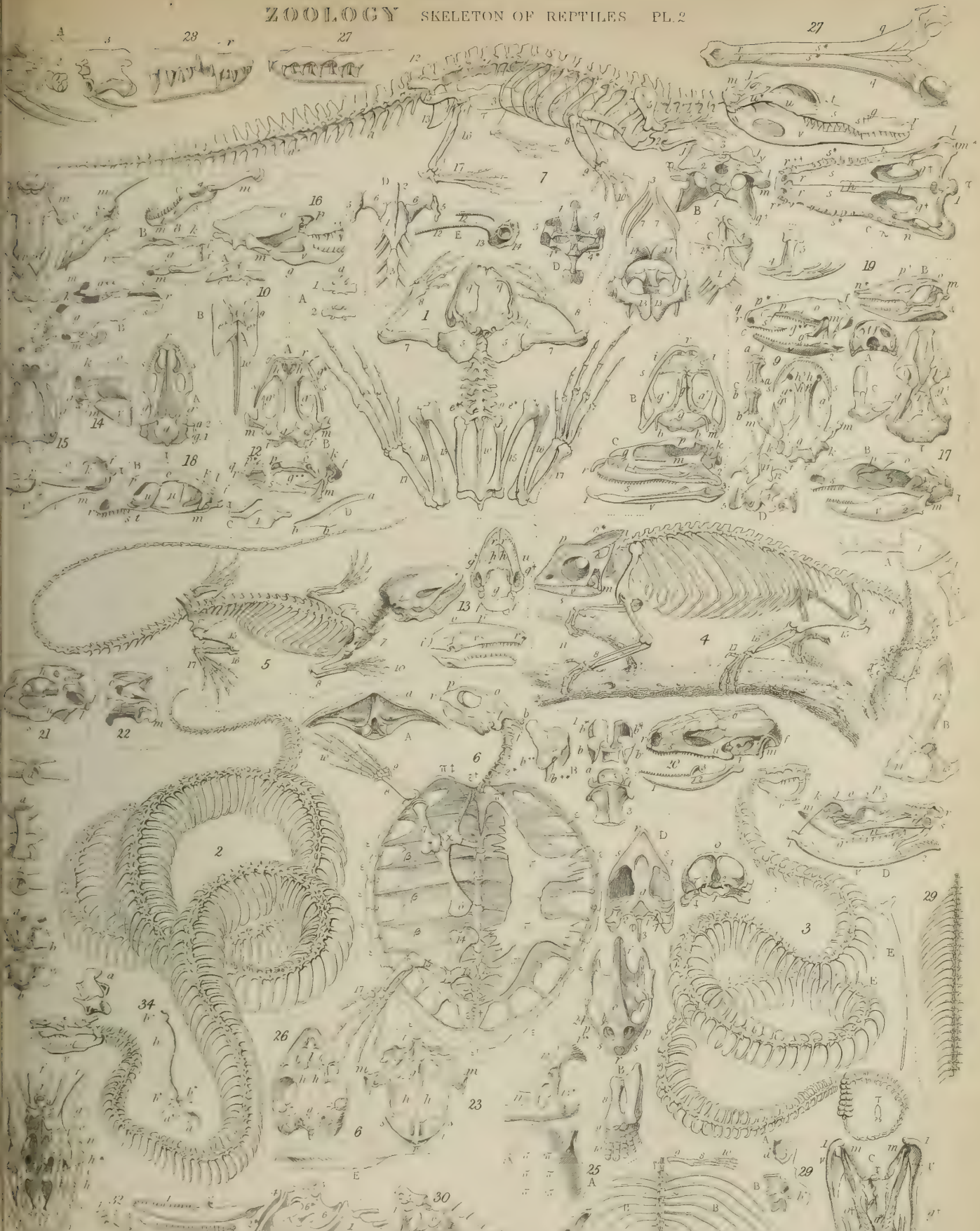
J.W. Lowry, Sculp.



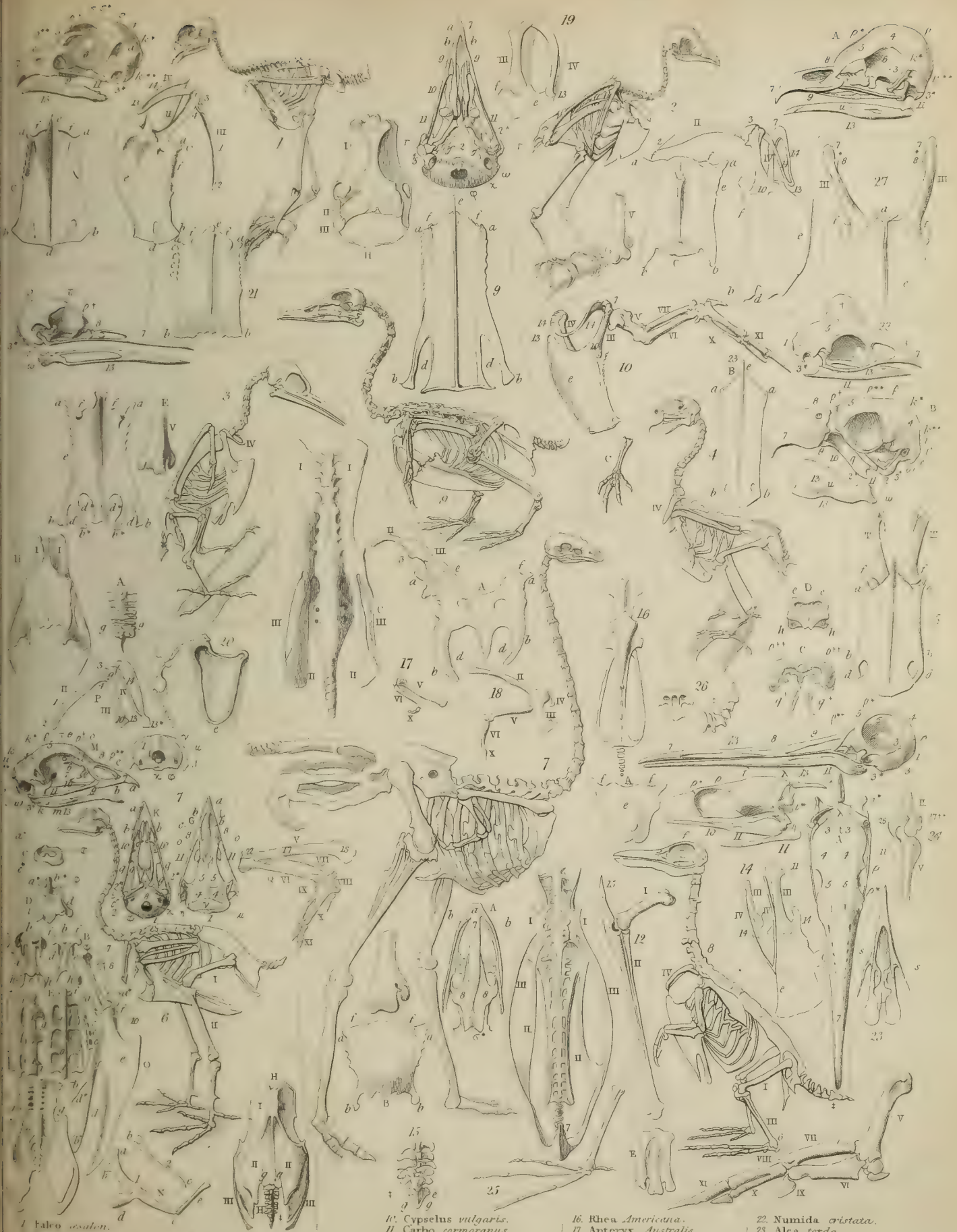
1. *Ammocetes branchialis* 2. *Bdellostoma heterostema* 3. *Petromyzon marinus* 4. *Clupea arctica* 5. *Accipenser ruthenus*. 6. *Raja batas*.
 7. *Acuilius spinosus* 8. *Cyprinus carpio* 9. *Platessa vulgaris* 10. *Anguilla vulgaris* 11. *Perca fluviatilis* 12. *Hippocampus* 13. *Pegasus* —
 14. 15. *Morhua scleremus* 16. *Salmo salar* 17. *Zeus vomer* 18. *Lophius piscatorius*

London Published April 7. 1843 by B. Fellowes, 39, Ludgate Street.

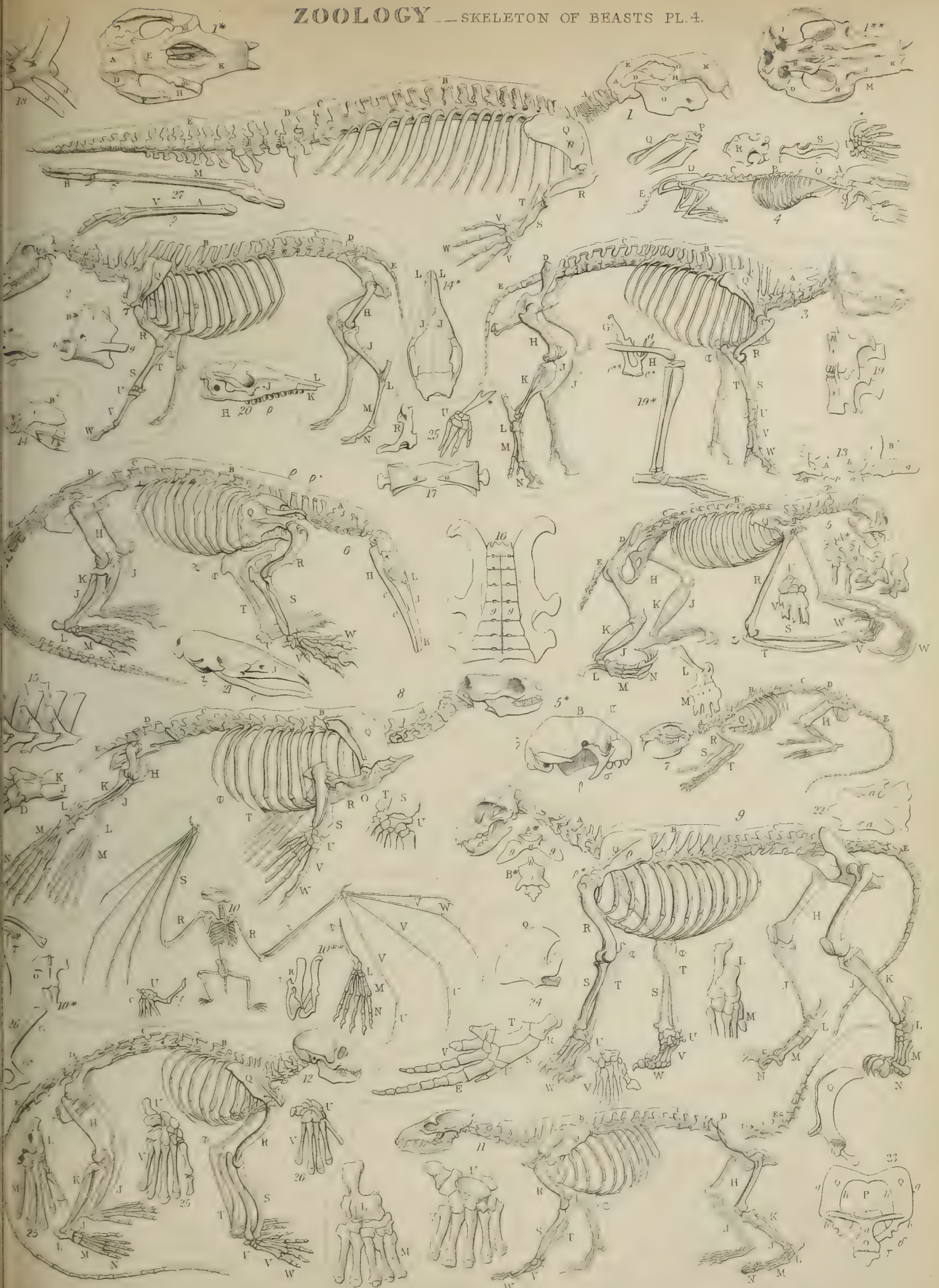
J.W. Leary sculp.



- | | | | | |
|-------------------------------|-----------------------------|----------------------------------|---------------------------------|----------------------------|
| 1. <i>Rana temporaria.</i> | 8. <i>Proteus.</i> | 31. <i>Typhlops humbrioides.</i> | 22. <i>Teius crocodilurus.</i> | 29. <i>Naja.</i> |
| 2. <i>Fython.</i> | 9. <i>Triton.</i> | 32. <i>Amphisbana.</i> | 23. <i>Chelys fimbriata.</i> | 30. <i>Iguana.</i> |
| 3. <i>Crotalus.</i> | 10. <i>Pipa.</i> | 33. <i>Acontias melcaaris.</i> | 24. <i>Trionyx.</i> | 31. <i>Varamus.</i> |
| 4. <i>Chamaeleo.</i> | 11. <i>Siren lacertina.</i> | 34. <i>Anguis fragilis.</i> | 25. <i>Testudo.</i> | 32. <i>Iguana cornuta.</i> |
| 5. <i>Iguana.</i> | 12. <i>Salamaudra.</i> | 35. <i>Scincus officinalis.</i> | 26. <i>Emys cypansa.</i> | 33. <i>Draco volans.</i> |
| 6. <i>Chamaeleo acaonana.</i> | 13. <i>Cecilia.</i> | 36. <i>Lacerta ocellata.</i> | 27. <i>Rauphostoma.</i> | 34. <i>Boa.</i> |
| 7. <i>Aligator taurus.</i> | 14. <i>Toitrix.</i> | 37. <i>Agama.</i> | 28. <i>Crocodylus vulgaris.</i> | |

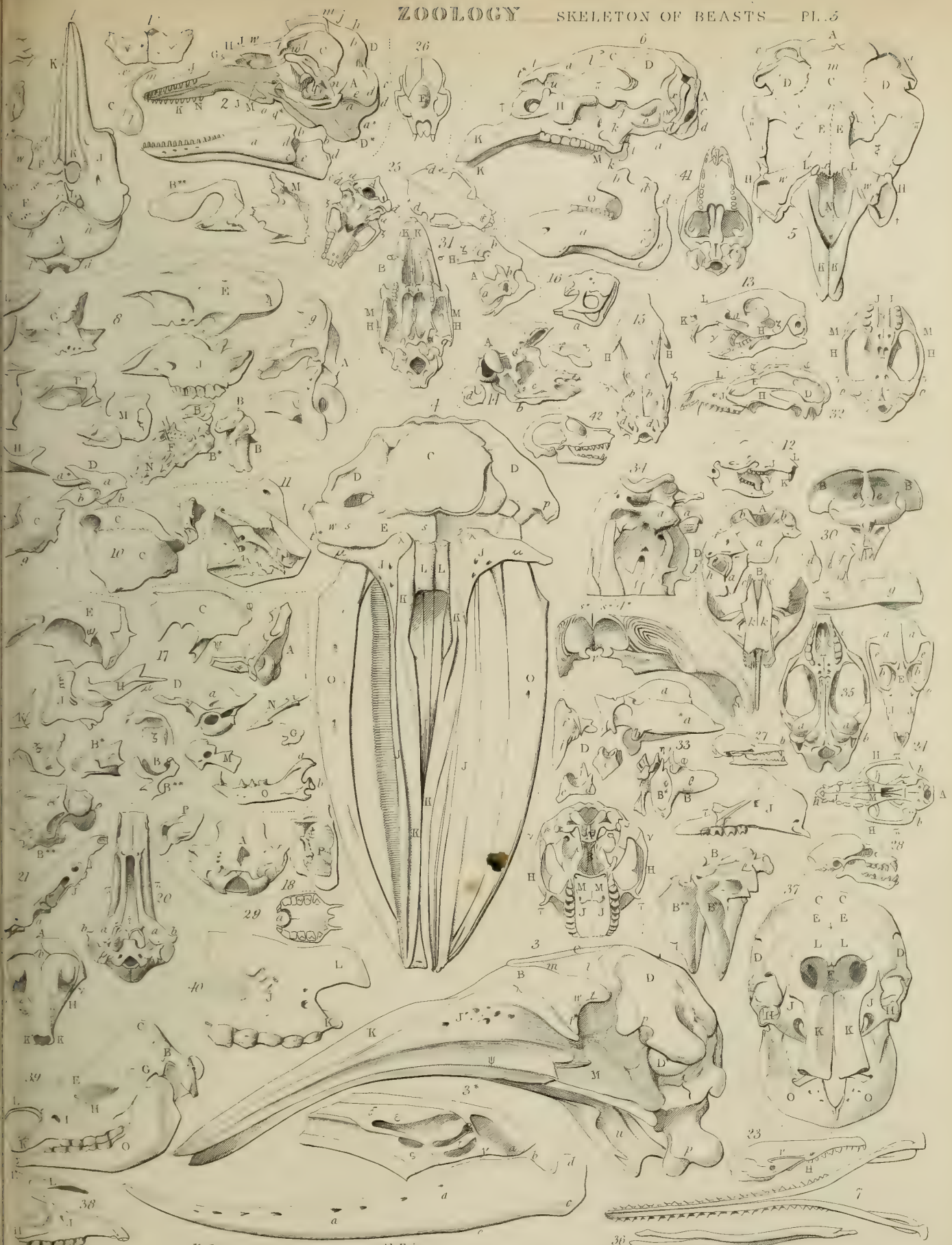


- | | | | | |
|--------------------|-------------------------|--------------------------|------------------------|----------------------|
| 1. Falco asalon. | 6. Gallus domesticus. | 11. Cypselus vulgaris. | 16. Rhea Americana. | 22. Numida cristata. |
| 2. Strux. | 7. Struthio camelus. | 12. Carbo cormoranus. | 17. Apteryx Australis. | 23. Alca torda. |
| 3. Pteris caudata. | 8. Aptenodytes demersa. | 13. Columbus glacialis. | 18. Dromiceius Emu. | 24. Cicouia aiba. |
| 4. Macroceros. | 9. Anas boschas. | 14. Scolopax rusticola. | 19. Ardea alala. | 25. Fulica. |
| 5. Pataculia. | | 15. Melagriss gallopave. | 20. Cygnus musicus. | 26. Sula alba. |
| | | | 21. Buteo vulgaris. | 27. Corvus corone. |



- | | | | | |
|----------------------------------|--------------------------------|---|--------------------------------|--------------------------------------|
| 11. <i>Malicore duroma.</i> | 6. <i>Myrmecophaga jubata.</i> | 11. <i>Nasua fusca.</i> | 18. <i>Phocæna</i> | 23. <i>Ornithorynchus paradoxus.</i> |
| 12. <i>Ovis aries.</i> | 7. <i>Mus rattus.</i> | 12. <i>Ceropithecus maurus.</i> | 19. <i>Macropus</i> | 24. <i>Phocæna.</i> |
| 13. <i>Sus scrofa.</i> | 8. <i>Phoca Brasiliensis.</i> | 13. <i>Ornithorynchus paradoxus.</i> | 20. <i>Dasybus saccinatus.</i> | 25. <i>Chrysochloris.</i> |
| 14. <i>Talpa Europaea</i> | 9. <i>Felis leo.</i> | 14. 15. 16. <i>Dasybus novem-articus.</i> | 21. <i>Manis</i> | 26. <i>Stenopus graalis.</i> |
| 15. <i>Bradypus tridactylus.</i> | 10. <i>Vespertilio.</i> | 17. <i>Phascolomys.</i> | 22. <i>Lepus arizonicus.</i> | 27. <i>Moschus pygmaeus.</i> |

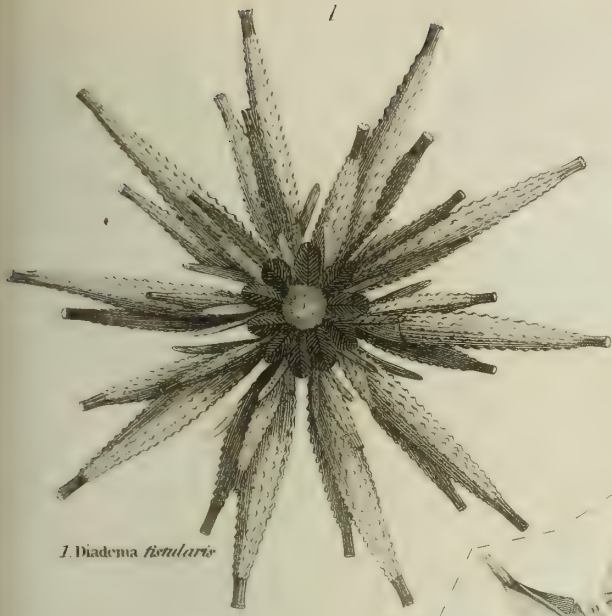




- | | | | |
|--------------------------|--------------------|------------------|-------------------------------|
| 11. Cervus. | 19. Erinaceus. | 27. Glossophaga. | 34. Phascolarctos. |
| 12. Sciurus. | 20. Centetes. | 28. Rhinolophus. | 35. Perameles. |
| 13. Cavia. | 21. Sorex indicus. | 29. Vespertilio. | 36. Manis. |
| 14. Myrmecophaga jubata. | 22. Chrysochloris. | 30. Echidna. | 37. Elephas. |
| 15. ib tamarindus. | 23. Talpa. | 31. Lepus. | 38. Tapirus. |
| 16. Castor. | 24. Pteropus. | 32. Didelphis. | 39. Rhinoceros. 40. ib sinus. |
| 17. Felis. | 25. Phyllostoma. | 33. Macropus. | 41. Galeopithecus. 42. Lemur. |
| 18. Phoca. | 26. Nycterus. | | |

ECHINIDA. I.

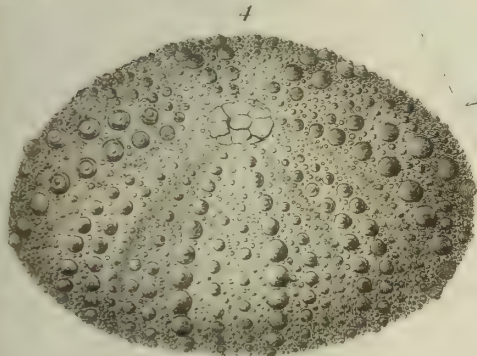
Family I. CIDARIDE.



1. *Diadema ficularis*



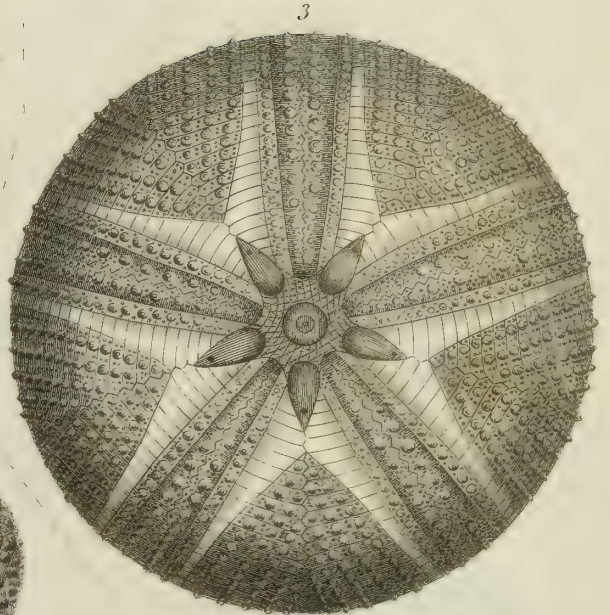
2. *Cidaris imperialis*



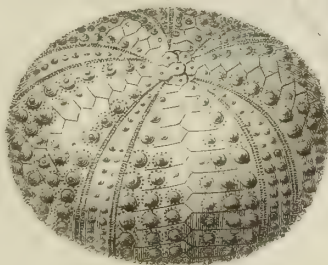
4. *Echinus nitidus*



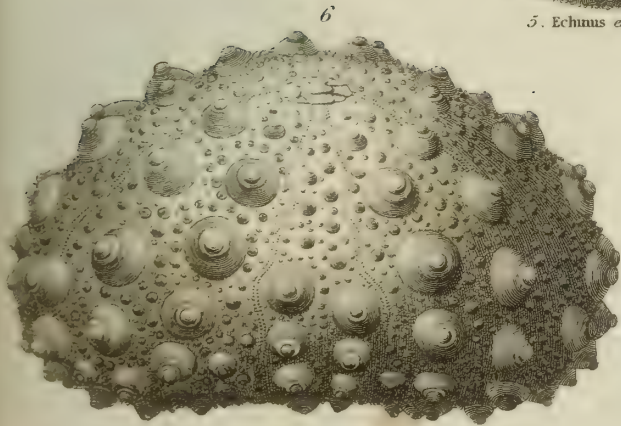
Jaws



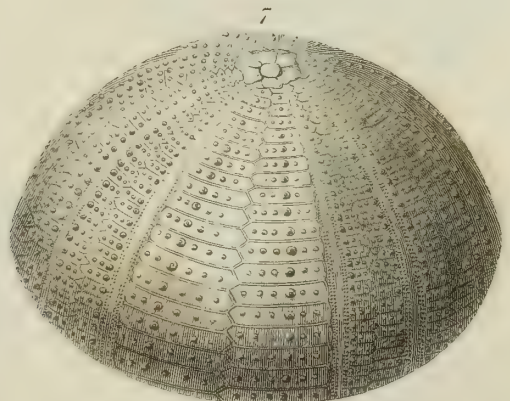
3. *Astropgva radiata*



5. *Echinus elegans*



6. *Echinometra mammillatus*

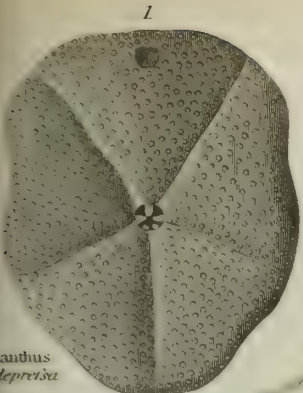


7. *Echinus sardicus*

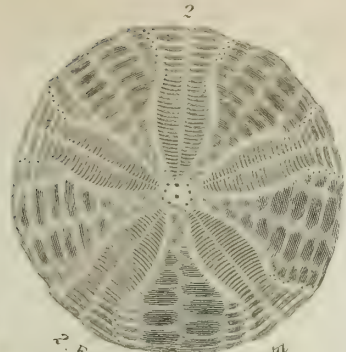
Family II. ECHINIDE.

ECHINIDA. 2

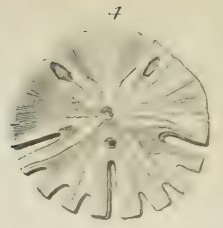
Family 3. SCUTELLIDÆ



1. *Echinanthus depressa*



2. *Echinarachnius Placenta*



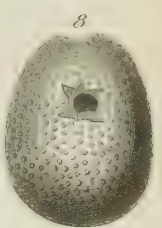
3 & 4. *Echinodiscus Digitata*



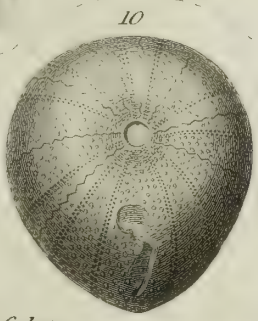
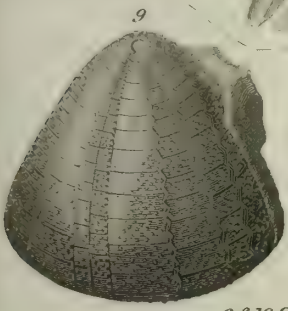
5. Jaws of *Echinanthus Rosaceus*



6. Jaws of *Echinodiscus Saxiforis*

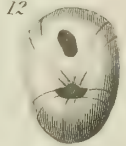


7 & 8. *Cafsidulus Australis*



9 & 10. *Galerites Albo Galeris*

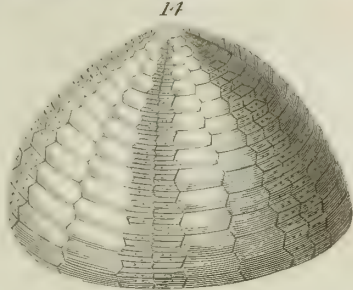
Family 4. GALERITIDÆ



11 & 12. *Echinanus minor*



13. *Echinolampas Koenigii*

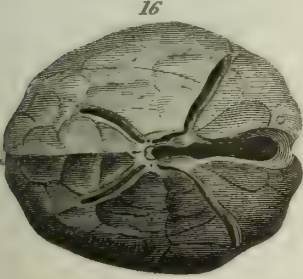


14. *Echinocorys Onitus*

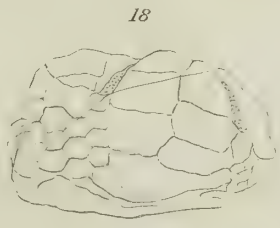


15. *Echinobrissus Brevii*

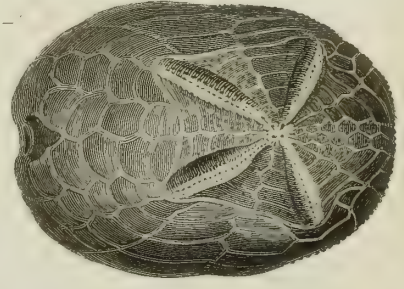
Fam. 5. SPATANGIDÆ



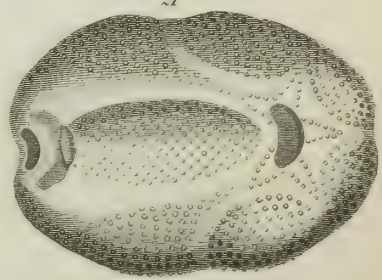
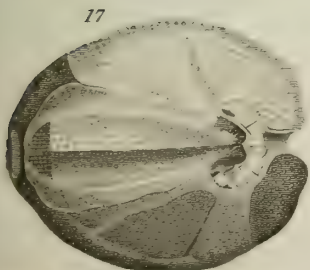
16 & 17. *Echinocardium Atropis*



19. Tentacula of *Spatangus Purpureus*



20 & 21. *Brisfus Unicolor*



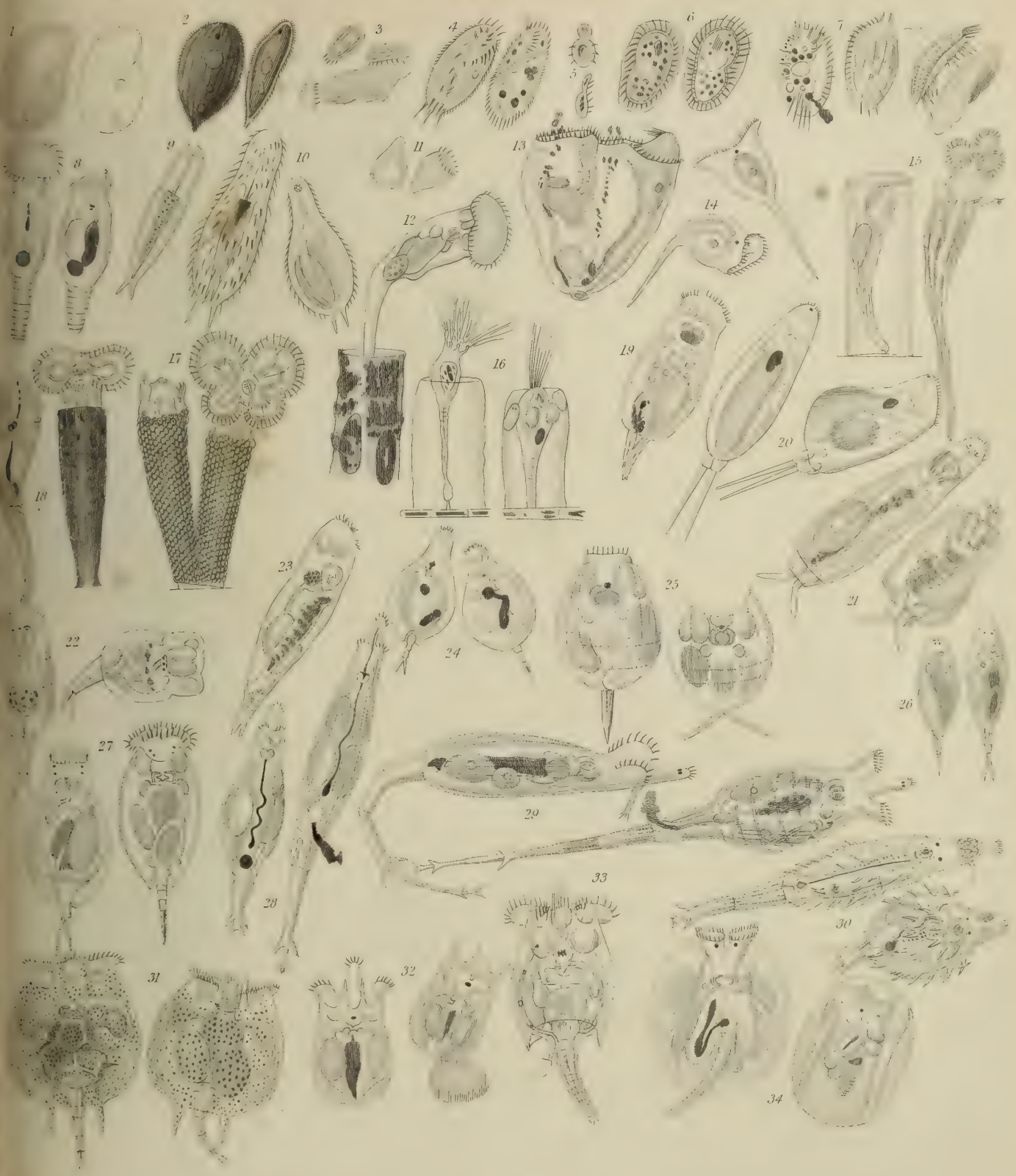
v. Polygastrica.



Genera & Species.

1. <i>Monas Crepusculum.</i>	11. <i>Sphaerosira, Volvox.</i>	21. <i>Amoeba, Dirluensis.</i>	31. <i>Synedra, Tlna.</i>	41. <i>Glenodinium, Tabulatum.</i>	51. <i>Leucophris, Patula.</i>
2. <i>Monas, Guttula.</i>	12. <i>Volvox, Globator.</i>	22. <i>Difflugia, Proteiformis.</i>	32. <i>Echinella, Splendida.</i>	42. <i>Stentor, Mulleri.</i>	52. <i>Prorodon, Teres.</i>
3. <i>Uvella, Viridans.</i>	13. <i>Vibrio, Subtilis.</i>	23. <i>Cyphidium, Aureolum.</i>	33. <i>Synechelia, Salpa.</i>	43. <i>Trocentrum, Turbo.</i>	53. <i>Coleps, Incaevus.</i>
4. <i>Doxococcus, Globulus.</i>	14. <i>Spirodiscus, Fulvus.</i>	24. <i>Desmidiium, Swartzii.</i>	34. <i>Naumema, Dilwynii.</i>	44. <i>Vorticella, Microstoma.</i>	54. <i>Trachelius, Ovum.</i>
5. <i>Chilomonas, Volvox.</i>	15. <i>Closterium, Lunula.</i>	25. <i>Xanthidium, Fasciculatum.</i>	35. <i>Schizonema, Agardhi.</i>	45. <i>Zoothamnium, Arbuscula.</i>	55. <i>Phialina, Vermicularis.</i>
6. <i>Bodo, Sociatis.</i>	16. <i>Astasia, Hematodes.</i>	26. <i>Micrasterias, Boryana.</i>	36. <i>Cyclidium, Glaucoma.</i>	46. <i>Oplidium, Versatile.</i>	56. <i>Chilodon, Cucullulus.</i>
7. <i>Cryptomonas, Orata.</i>	17. <i>Euglena, Viridis.</i>	27. <i>Euastrum, leucatum.</i>	37. <i>Chaetomonas, Constricta.</i>	47. <i>Tintinnus, Inquilinus.</i>	57. <i>Nassula, Elegans.</i>
8. <i>Trachelomonas, Polygastrica.</i>	18. <i>Distigma, Tnox.</i>	28. <i>Navicularia, Phoenicentron.</i>	38. <i>Chaetophyla, Armata.</i>	48. <i>Vaginicola, Crystalina.</i>	58. <i>Trachelocerca, Olor.</i>
9. <i>Gages, animalum.</i>	19. <i>Epithemia, Fuculus.</i>	29. <i>Bacillaria, Fulguris.</i>	39. <i>Chaetoglena, Polygastrica.</i>	49. <i>Enchelys, Pupa.</i>	59. <i>Amphileptus, Fasciola.</i>
10. <i>Semicypta, Volvox.</i>	20. <i>Dinobryon, Sartularia.</i>	30. <i>Isthmia, Enervis.</i>	40. <i>Peridinium, Triplos.</i>	50. <i>Lachrymaria, Proteus.</i>	60. <i>Aspidisca, Denticulata.</i>

Edm.



GENERA AND SPECIES.

- | | | | | |
|---------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|
| 1 Kolpoda, <i>Ren</i> . | 8. Ptygura, <i>Melicerta</i> . | 15. Tubicularia, <i>Najas</i> . | 22. Triophthalmus, <i>Dorsualis</i> . | 29. Rotifer, <i>Macrurus</i> . |
| 2 Ophryoglena, <i>Acuminata</i> . | 9. Ichthyidium, <i>Podura</i> . | 16. Floscularia, <i>Ornata</i> . | 23. Cycloglena, <i>Lupus</i> . | 30. Philodina, <i>Auleata</i> . |
| 3 Oxytricha, <i>ticula</i> . | 10. Chætonotus, <i>Maximus</i> . | 17. Melicerta, <i>Ringers</i> . | 24. Lepadella, <i>Ovalis</i> . | 31. Notozou, <i>Quadricornis</i> . |
| 4 Stylonychia, <i>Fusculata</i> . | 11. Glenophora, <i>Trochus</i> . | 18. Limnias, <i>Ceratophylli</i> . | 25. Euchlanis, <i>Luna</i> . | 32. Anuraea, <i>Squamula</i> . |
| 5 Discoccephalus, <i>Rotatorius</i> . | 12. Cæcistes, <i>Hyalinus</i> . | 19. Hydatina, <i>Brachydactyla</i> . | 26. Colurus, <i>Acudatus</i> . | 33. Brachionus, <i>Amphiceros</i> . |
| 6 Chlamydon, <i>Mnemosyne</i> . | 13. Cyphonantes, <i>Compressus</i> . | 20. Furcularia, <i>Gibba</i> . | 27. Squamella, <i>Oblonga</i> . | 34. Perodina, <i>Patina</i> . |
| 7 Euplates, <i>Quarin</i> . | 14. Microcodon, <i>Clavus</i> . | 21. Diglena, <i>Grandis</i> . | 28. Callidina, <i>Elegans</i> . | |

CRUSTACEA

Family I. BRACHYURA

1



Grapsus pictus

2



Phyllosoma clavicornis

Fam. II. MACROURA

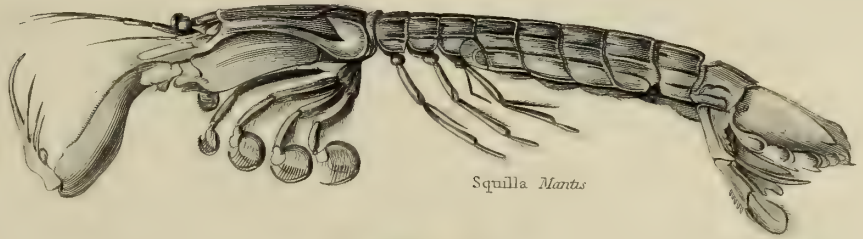
3



Pagurus Bernardus

Fam. III. STOMATOPODA

4



Squilla Mantis

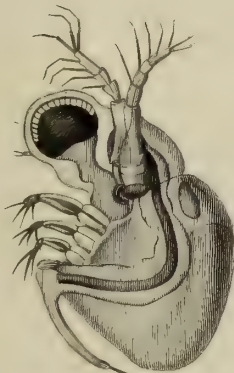
Fam. IIII. ISOPODA.

5



Cymodoce Lamarckii

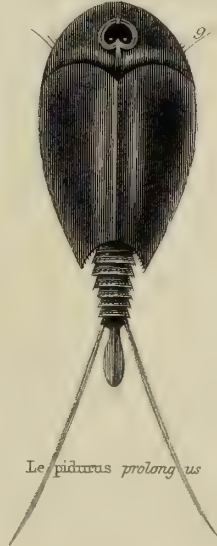
7



Polyphemus stagnalis

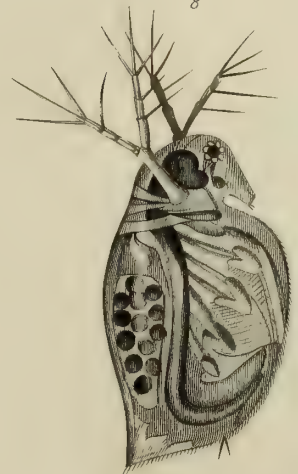
Fam. V. BRACHIOPODA

9



Lepidurus prolongus

8



Daphnia Pulex

10



Brachiripus stagnalis

6



Porcellus asellus



- | | | | | |
|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| 1. Spermatozoa varia | 9. Distoma hepaticum. | 17. Aphrodita hispida. | 25. Sigalion Mathilde. | 33. Pholcus phalangioides. |
| 2. Trilum spirale. | 10. Planaria lactea. | 18. Arenicola piscatorum. | 26. Julus terrestris. | 34. Phrynus reniformis. |
| 3. Aporhystus indigena | 11. Filaria gracilis. | 19. Lumbricus terrestris. | 27. Scolopendra morsitans. | 35. Scirus elephas. |
| 4. Cysticerus callosus | 12. Strongylus gigas. | 20. Hirudo medicinalis. | 28. Epeira diadema. | 36. Hydrangea globulosa. |
| 5. Cysticerus fasciolaris | 13. Ascaris lumbricoides. | 21. Glycera | 29. Scorpio Afer. | 37. Raphignathus ruber. |
| 6. Echinocyclus gigas | 14. Ascaris rubens. | 22. Eucyba sanguinea. | 30. Trombidium phalangii. | 38. Smaridia papillosa. |
| 7. Tenua celum | 15. Echinus lividus. | 23. Chloronia Edwardsii. | 31. Mygale Coffraria. | 39. Izodes plumbeus. |
| 8. Bothrocephalus lance | 16. Holothuria tubulosa. | 24. Babryra aurifera. | 32. Tegenaria domestica. | 40. Acarus domesticus. |



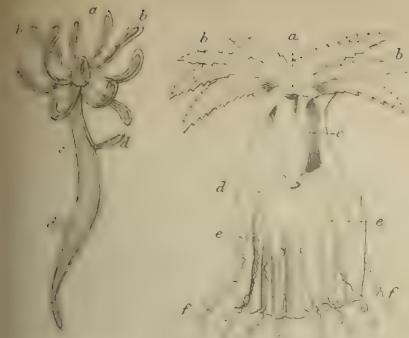
- 1. *Dinemoura alata.*
- 2. *Limulus.*
- 3. *Astacus fluviatilis.*
- 4. *Platycarcinus menas.*
- 5. *Talitrus saltator.*
- 6. *Cypris vidua.*
- 7. *Accessory pieces of Segments.*
- 8. *Squilla Desmarestii.*
- 9. *Astacus fluviatilis.*

- 10. *Squilla Desmarestii.*
- 11. *Astacus fluviatilis.*
- 12. *ib.*
- 13. *Maia verrucosa.*
- 14. *Pagurus Bonarvitus.*
- 15. *Tracheliastes polycarpus.*
- 16. *Lernaeocera cyprinacea.*
- 17. *Dyticus marginalis.*
- 18. *Vespa vulgaris.*

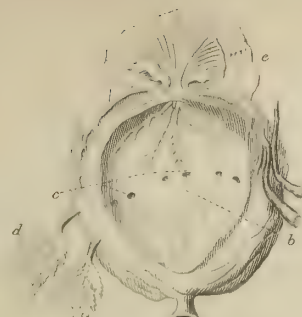
- 19. *Dyticus.*
- 20. *Siphona.*
- 21. *Halictus.*
- 22. *Teeth of Insects.*
- 23. *Geotrupes.*
- 24. *Acheta domestica.*
- 25. *Cerambyx moschatus.*
- 26. *Tabanus.*
- 27. *Pettigonia.*

- 28. *Nepa Nephtunia.*
- 29. *Machaon.*
- 30. *Noctua libatrix.*
- 31. *Antenna.*
- 32. *Eyes.*
- 33. *Thorax.*
- 34. *Musca.*
- 35. *Abdomen.*
- 36. *Wings.*

- 37. *Legs.*
- 38. *Pentalasmis unatitera.*
- 39. *Acephalus, Mantles and Feet.*
- 40. *Helix aspersa.*
- 41. *Murex Section of Shell.*
- 42. *Nautilus pompilius.*
- 43. *Loligo sagittata.*
- 44. *Sepia officinalis.*
- 45. *Clio borealis.*



Hydra Viridis. Verucillum Cynomorum.



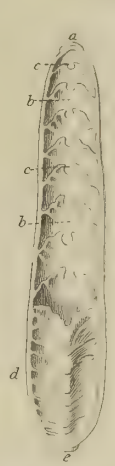
Asterias Aurantiaca.



Echinus Saxatilis.



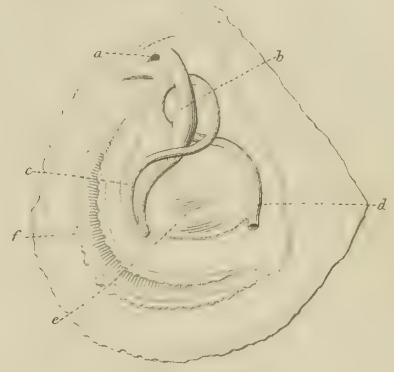
Holothura Tubulosa



Hirudo Vulgaris.



Loligo Vulgaris.



Ostrea Eduus



Anodon Cygneus



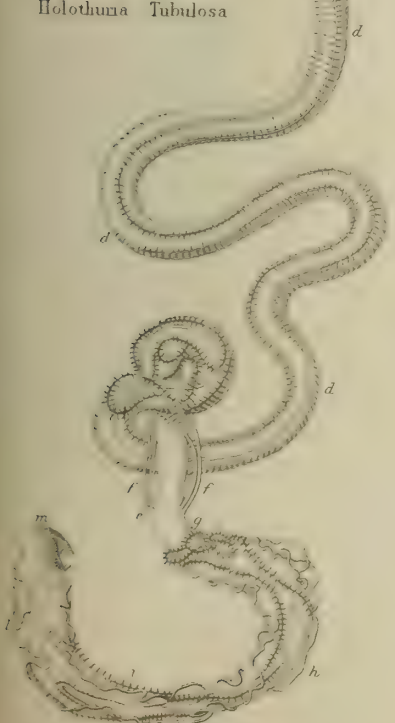
Cicindela Campestris.



Scorpio Europæus



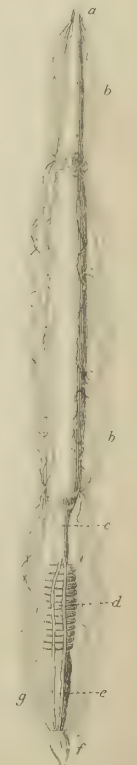
Aranea Domestica.



Mololontha Vulgaris



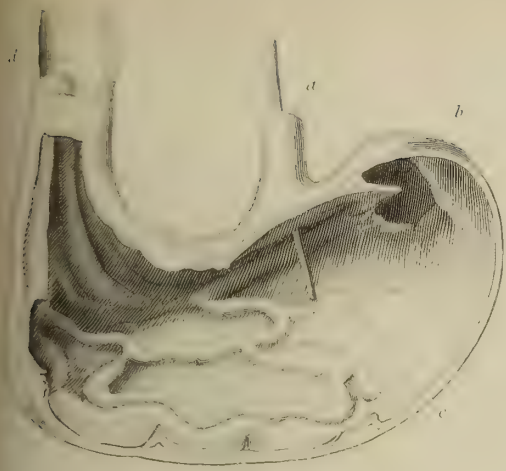
Astacus Fluviatilis.



Julus Terrestris.

ZOOLOGY.

Alimentary Canal N°4



Sus Scrofa - Pig.



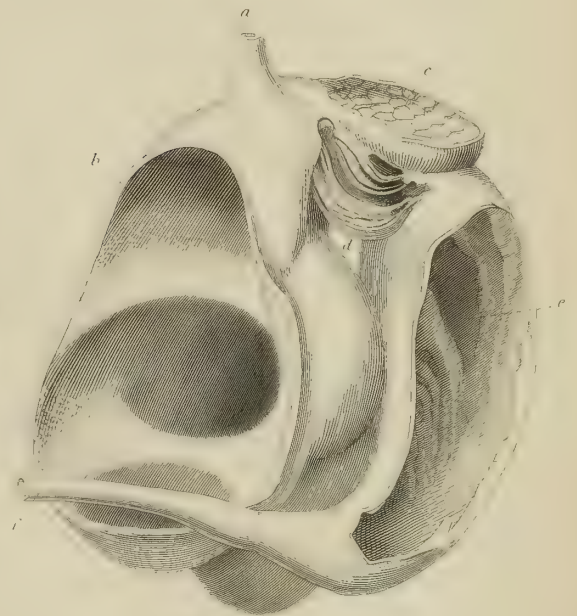
Macropus Giganteus - Kangaroo.



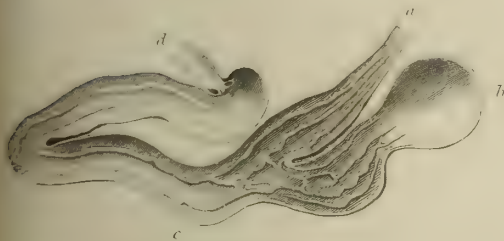
Lepus Timidus - Hare.



Bos Taurus - Calf.



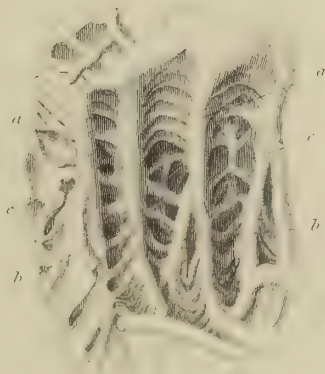
Ovis Aries - Sheep.



Pteropus - Vampire Bat.



Phocaena Vulgaris - Porpoise.

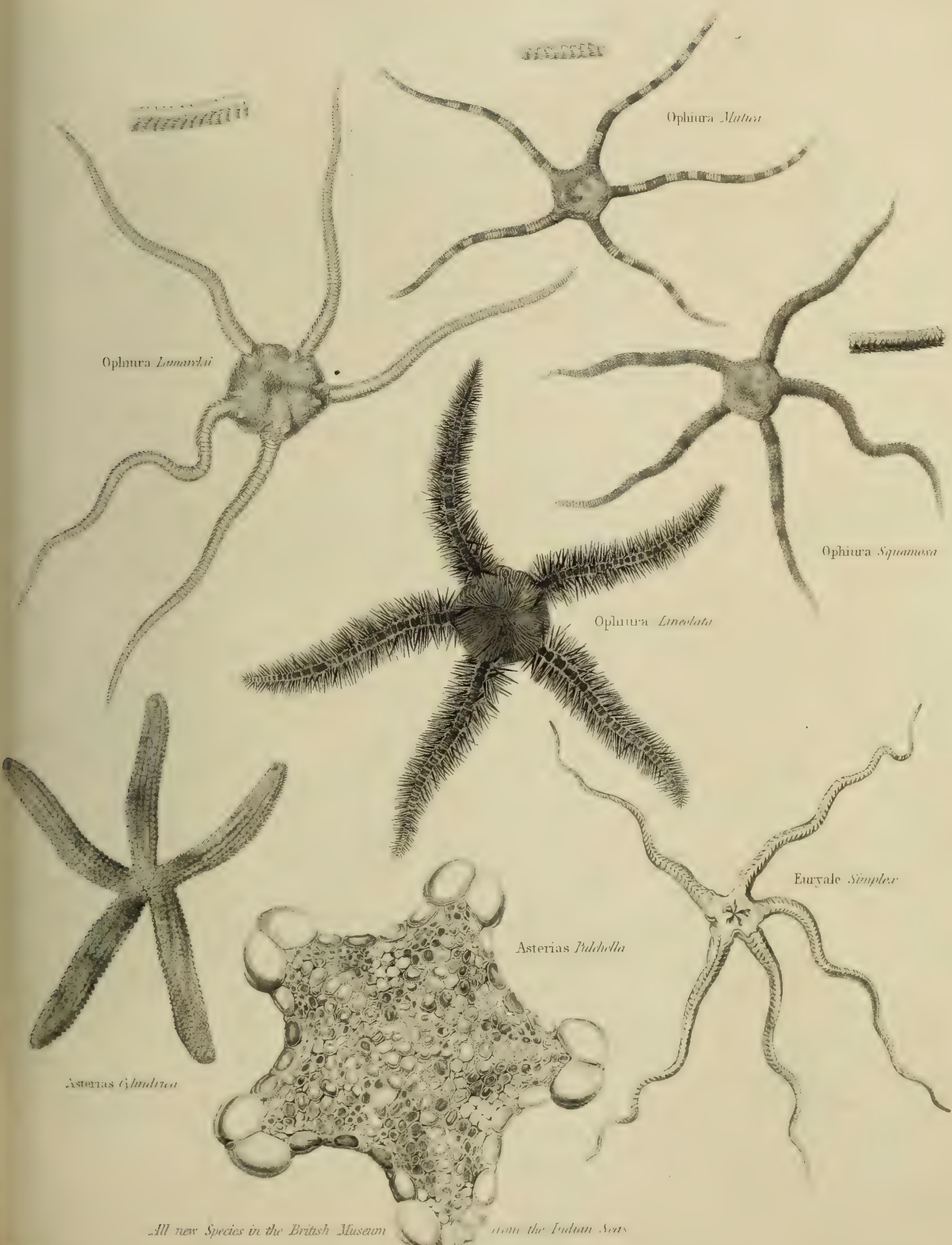


Camelus Bactrianus - Camel.



Phocaena Vulgaris - Porpoise.

J.W. Lowry sculp.



Ophiura Lamaveli

Ophiura Matica

Ophiura Squamosa

Ophiura Lineolata

Euryle Simplex

Asterias Pulchella

Asterias Cylindrica

All new Species in the British Museum from the Indian Seas

ARACHNIDÆ.

Family I. THYSANOURA.

Fam. III. MYRIAPODA.

Fam. II. PARASITICA.



Forbicina vittata.



Ricinus paronis.



Pediculus humanus.



Podura villosa.



Polydesma complanata.



Lithobia vulgaris.



Glomeris zonatus.



Julus sabulosus.

Fam. IV. ACARI.



Smaridia fringillaris.



Siro rubens.



Siro rubens.



Mygale avicularis.

Fam. V. SCORPIONES.



Aranea extensa.

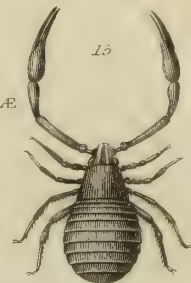


Aranea lobata.



Scorpio rufescens.

Fam. VI. CHELIFERÆ.



Cheyletiere.

Order. Campylosomata.

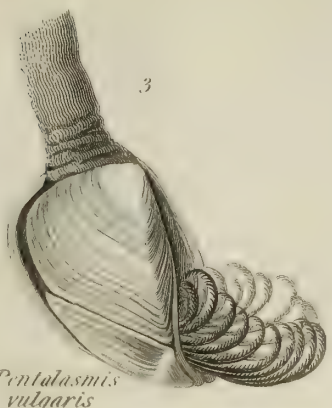


Fig. 1.

Otion Cuvieri



Cineras villata



Pentalasmis vulgaris



Scalpellum vulgare

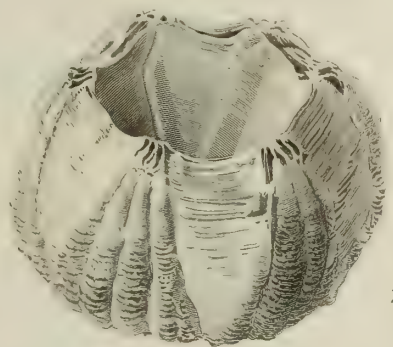


Pollicipes cornucopia

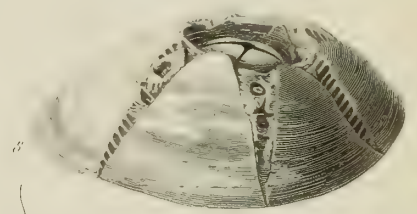
Order. Acantosomata.



Tubicinella Lamarckii



Coronula Diadema



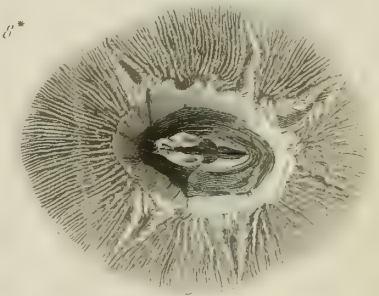
Chelonobia Savignii



Pyrgoma cancellata



Clusia Verruca



12



Creusia spinulosa



14

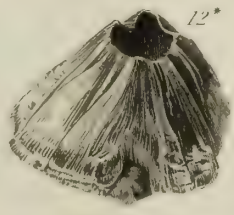
14*



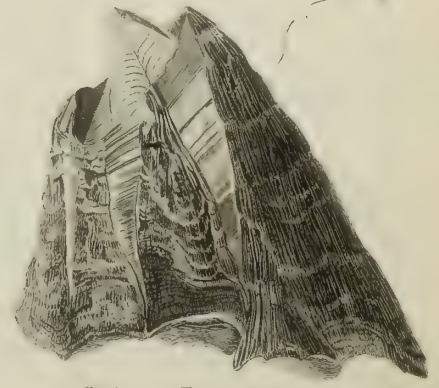
Acasta Montaguï



Conia vulgaris



12*



Balanus tintinnabulum

Balanus

ZOOPHYTES.

Class I. CORALS. ZOOPHYTES.

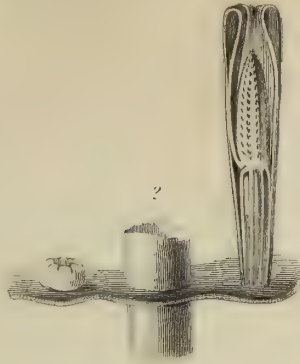
3



1. *Tubularia rugosa.*



2. *Tubipora musica.*



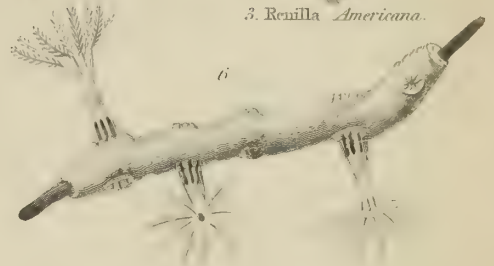
3. *Renilla Americana.*



4. *Tubularia costata.*

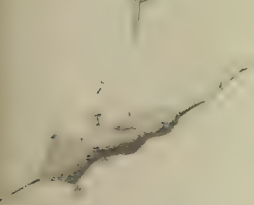


5. *Corallium rubrum.*

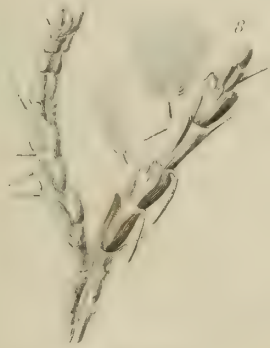


6. *Gorgonia patula.*

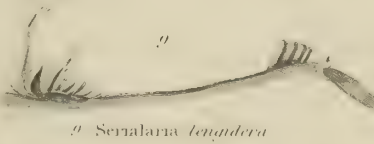
II. POLYPTES & POLYPTERA



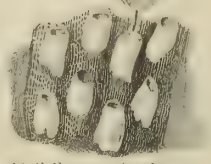
7. *Milipora spongiata.*



8. *Bacellaria instipata.*



9. *Sertularia leuclera.*



10. *Cellepora hvalna.*



11. *Laomedea dichotoma.*



12. *Pinnularia secundaria.*

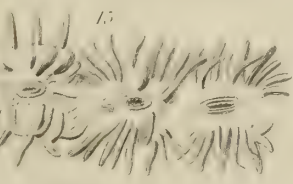
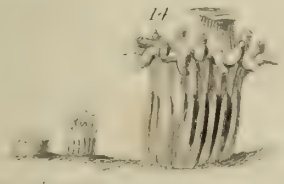


13. *Sertularia pumilla.*

III. SEA FLOWERS & STAR-CORAL. ZOANTHARIA.



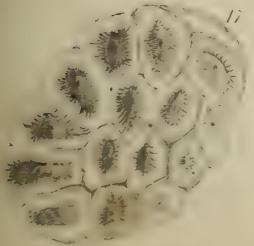
14. *Caryophyllaea setacea.*



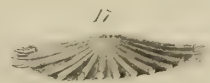
15. *Meandrina limosa.*



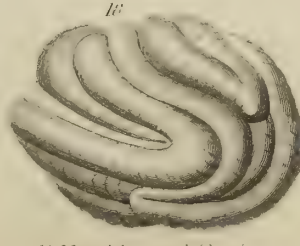
16. *Zoanthus ellisi.*



17. *Astrea hians.*



19. *Oculina varicosa.*



18. *Meandrina exilitermis.*



19. *Oculina varicosa.*

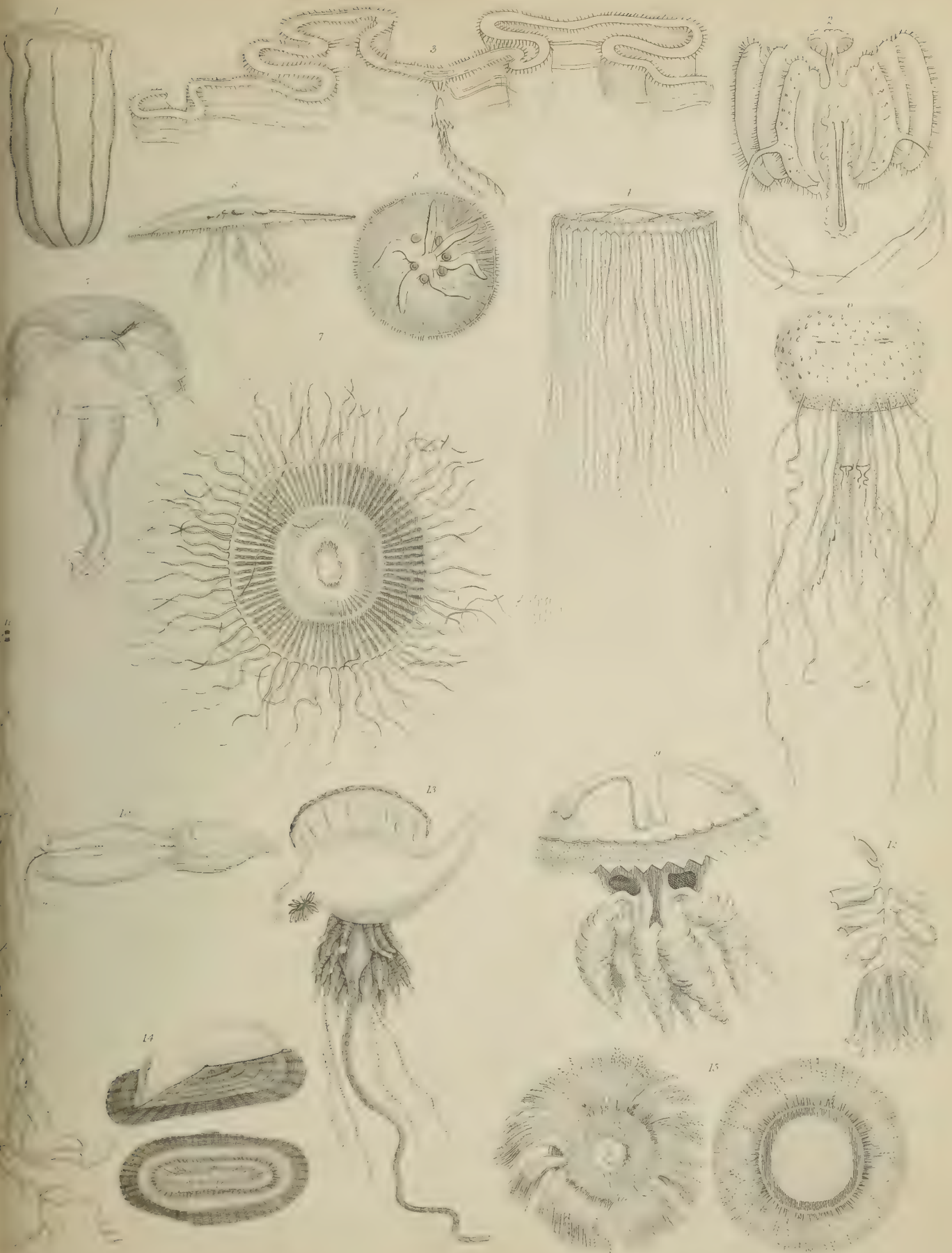


20. *Artinia dianthus.*

J. W. Lowry sculp.



ACALEPHÆ.

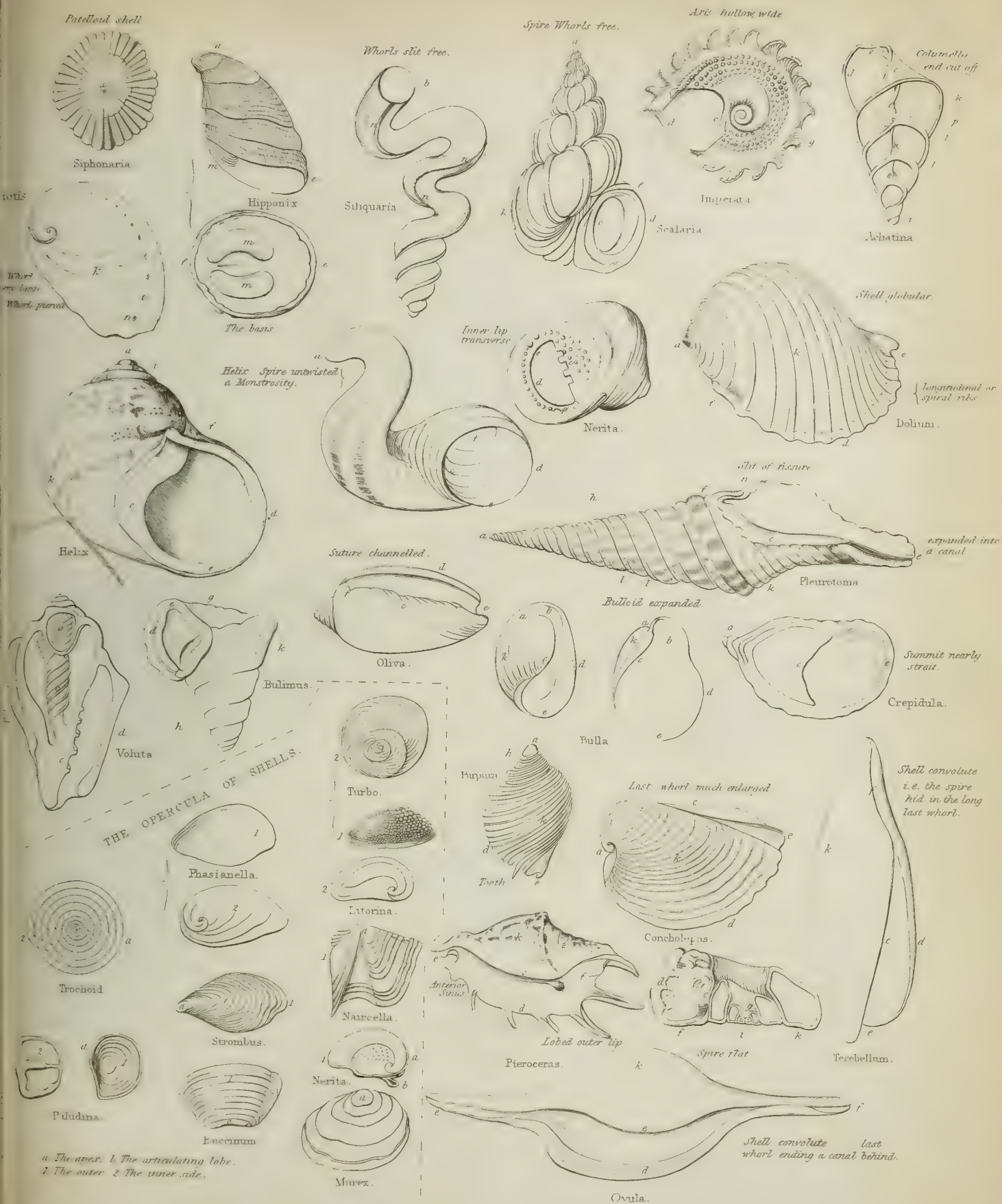


1 *Beroë macrostoma*. 2 *Callianira tripliptera*. 3 *Cestum Veneris*. 4 *Berenice rosea*. 5 *Geryonia hecaphylla*.
 6 *Pelagia panopyra*. 7 *Equorea Forskuelna*. 8 *Aurelia aurita*. 9 *Rhizostoma Cuvieri*. 10 *Diphya*
 11 *Rhizophysa planostoma*. 12 *Physophora disticha*. 13 *Physalia megalista*. 14 *Veleva cyanea*. 15 *Porpita gigantea*.

J.W. Lowry, sculp

TERMS USED IN CONCHOLOGY.

SPIRAL OR SUBSPIRAL SHELLS.

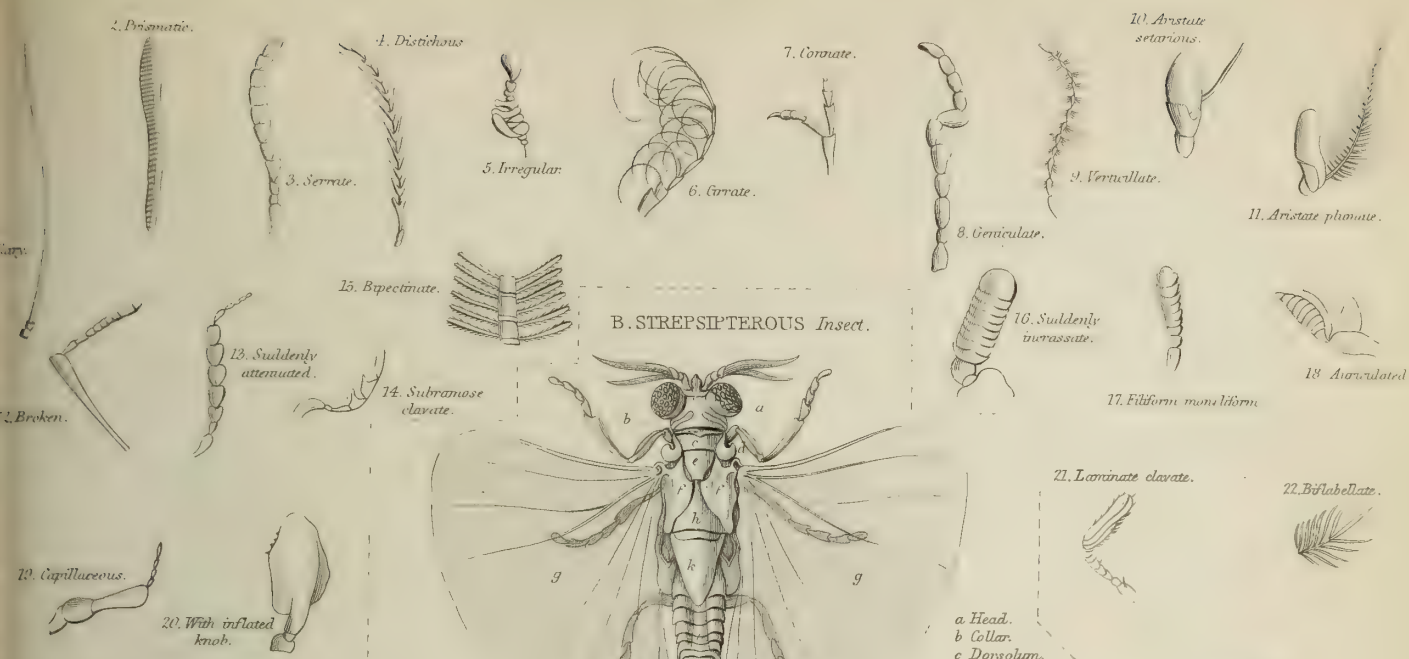


a. The apex. b. The articulating lobe.
 1. The outer. 2. The inner side.

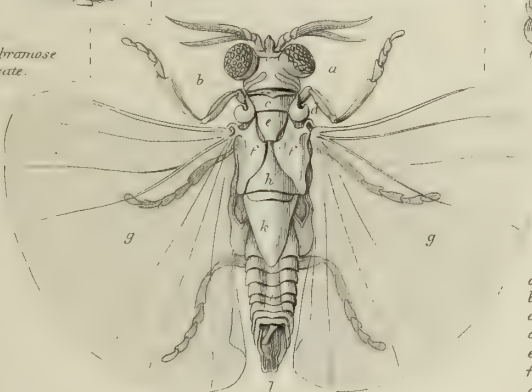
N.B. a. Summit or nucleus. b. Margin of mouth or Peristome. c. The inner or columella lip. d. Outer lip. e. Front edge. f. Hinder edge of mouth.
 g. The hollow axis or umbilicus. h. Spire. i. First whorl. k. Body whorl. l. Suture. m. Muscular impression. n. Longitudinal slit. o. Columella.
 p. Dissipement between the whorls.

TERMS USED IN ENTOMOLOGY.

ANTENNÆ



B. STREPSIPTEROUS Insect.



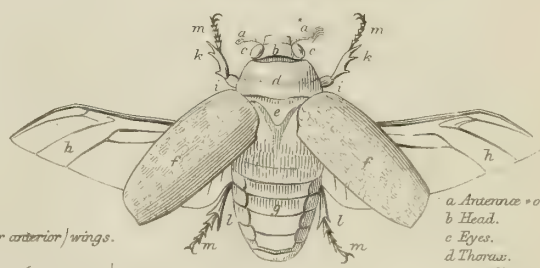
a Head.
b Collar.
c Dorsolum.
d Elytra.
e Scutellum.
f Lumbi.
g Wings.

D. LEPIDOPTEROUS Insect (imaginary)



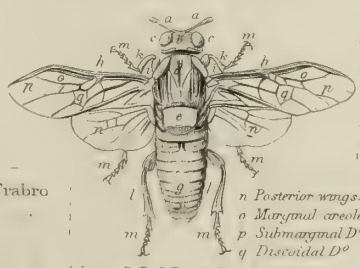
1 Costal areolet.
2 Postcostal D°
3 Basal D°
4 Apical D°
5 Anal D°
6 Ocellus.
7 Fascia.
a Rounded wing.
b Angulated D°
c Sinuated D° with tail.
d Genated D° D°

A. COLEOPTEROUS Insect.



a Antenna of male.
b Head.
c Eyes.
d Thorax.
e Scutellum.
f Elytra.
g Abdomen.
h Wings.
i Anterior femora.
k Anterior tibia (dentate).
l Posterior D° (Simple).
m Tarsi.

C. HYMENOPTEROUS Insect.



a Abdomen.
b Wings (anterior).
c Anterior femora.
d Anterior tibia (dentate).
e Posterior D° (Simple).
f Tarsi.

1. Lepidoptera. 2. Part of Antlia magnified.



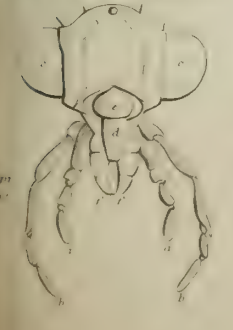
a Antennæ.
b Head.
c Eyes.
d Thorax.
e Scutellum.

4. Head of Crabro



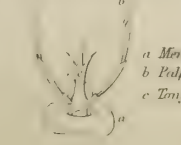
a Labial palpi
b Maxillary D°
c Eyes
d Labrum
e Nasus
f Maxilla
g Tongue
h Mandibles

3. Head of Trichoptera.

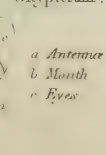


TROPHI &c.

5. Labrum of Leistus



6. Head of Oxypterus.

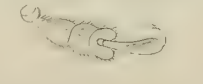


4. Patellate tarsus.

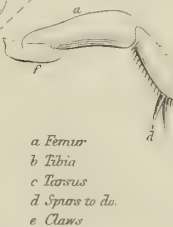


LEGS.

5. Simply dilated tarsus.



2. Natatorious.



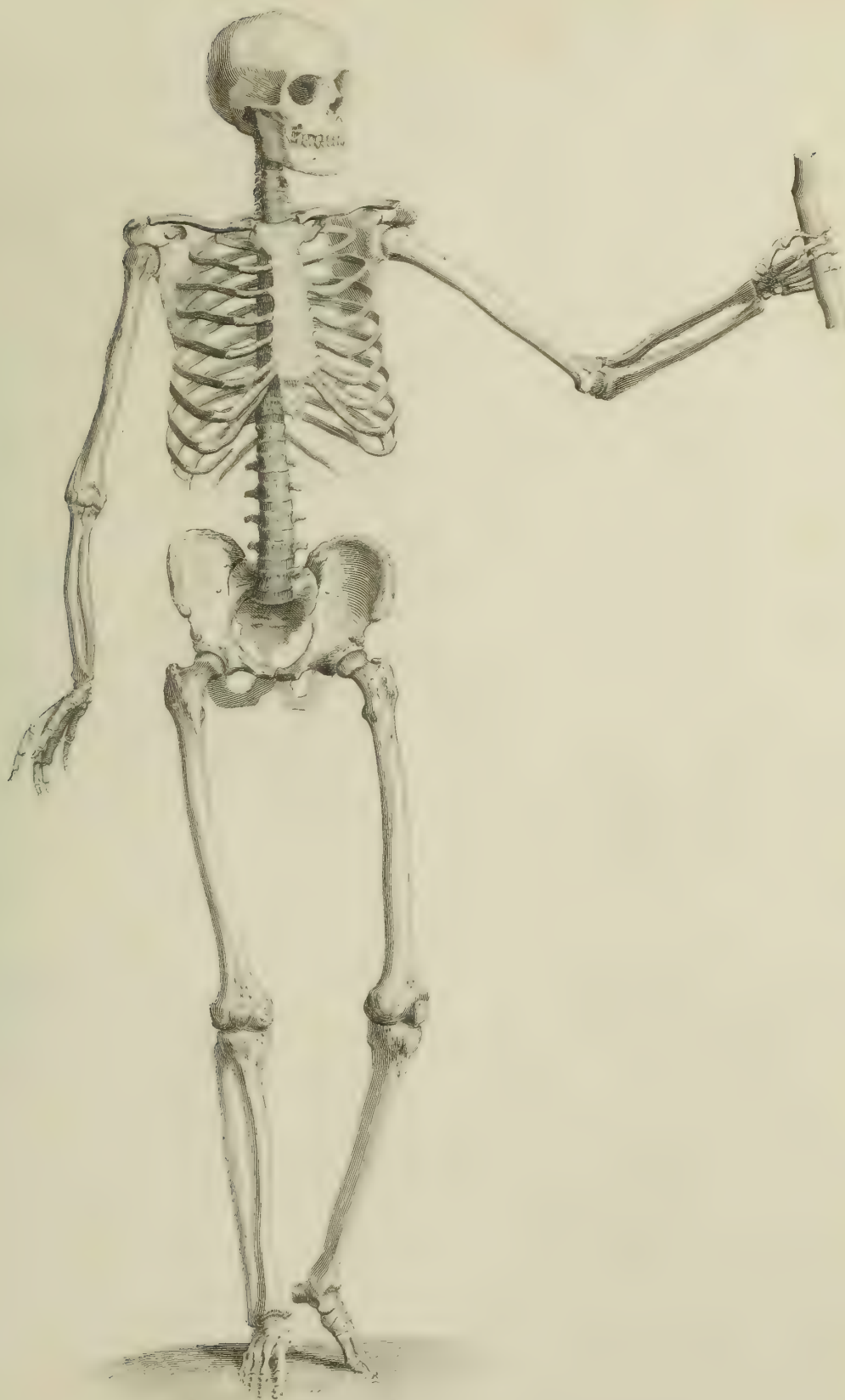
1. Saltatorial.



3. Fossoriums.

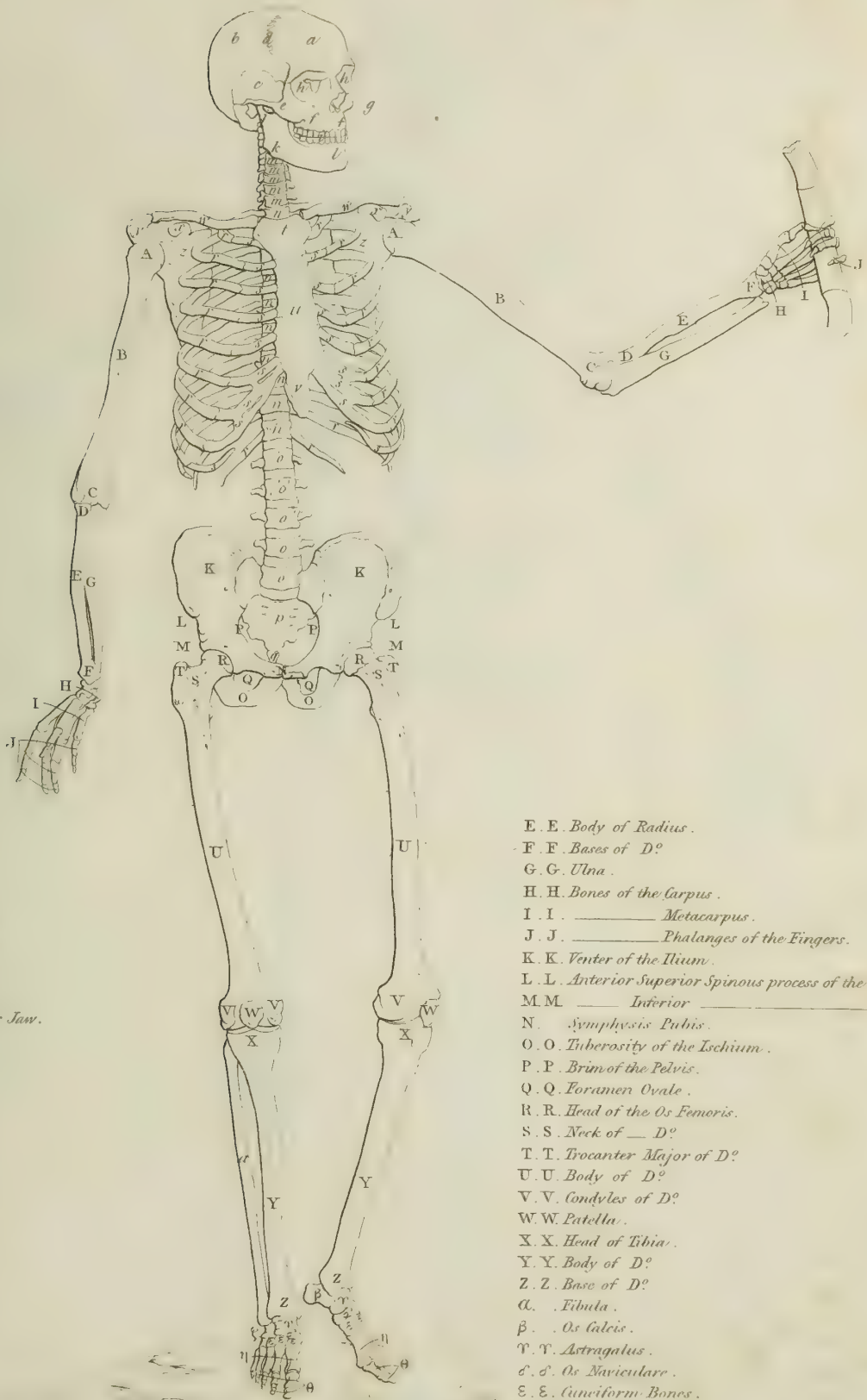


Front View of the Male Skeleton.



APOLLO BELVIDERE

Reference to the Front View of the Male Skeleton.



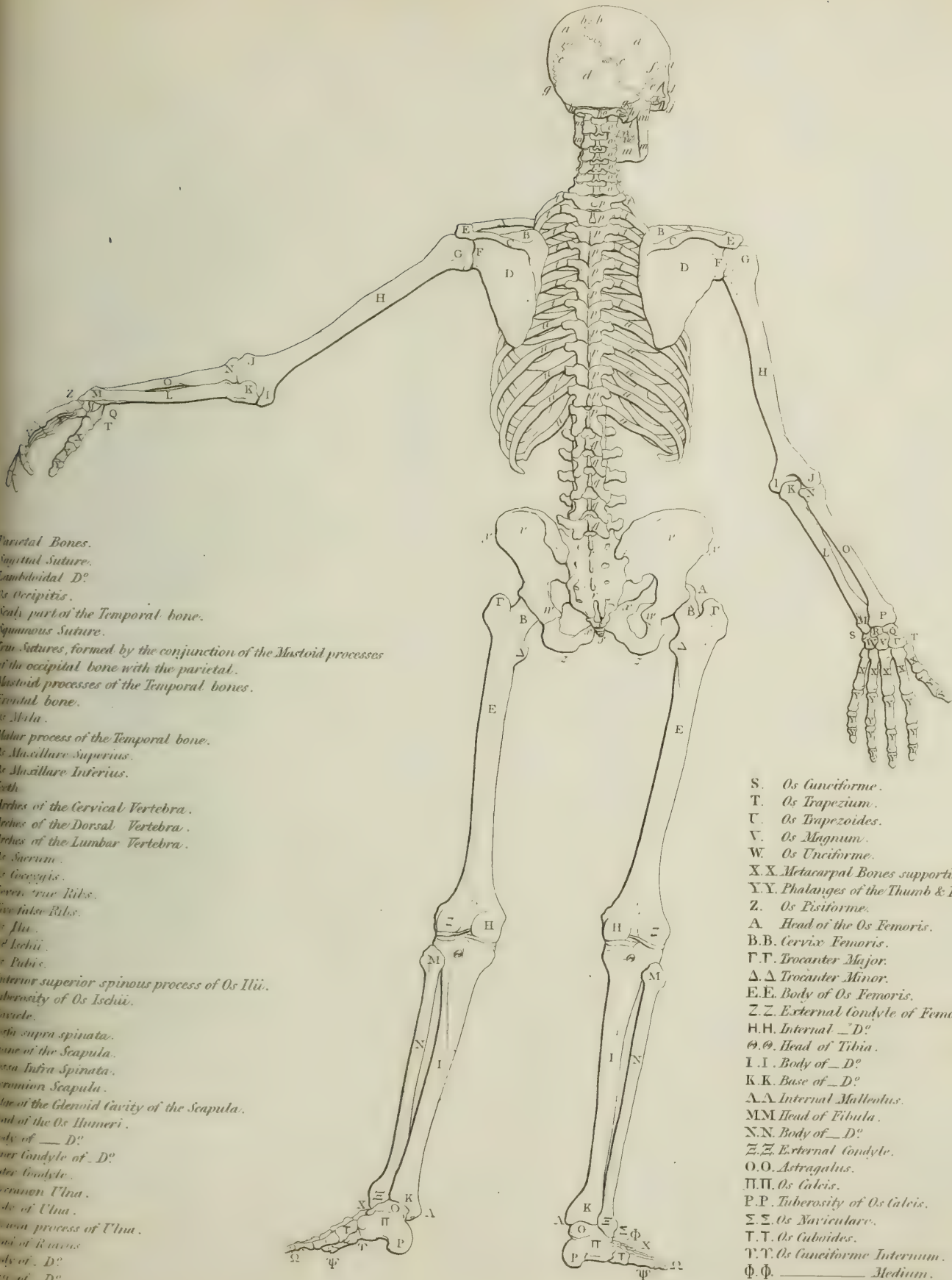
- a Os Frontis.
- b Parietal Bone
- c Temporal Bone.
- d Coronal Suture.
- e Os Male.
- f Superior Maxillary Bone
- g Osseæ Nasi.
- h h Orbits.
- i Teeth.
- j Condylloid process of the lower Jaw.
- k Angle of D°
- l Symphysis of D°
- m m Cervical Vertebrae.
- n n Dorsal D°
- o o Lumbar D°
- p Os Sacrum.
- q Os Coccygis.
- r r Ribs.
- s s Cartilages of the Ribs.
- t First bone of the Sternum.
- u Second bone of D°
- v Cartilago Ensiformis.
- w w Clavicles.
- x x Acromioid process of Scapula.
- y y Acromion of Scapula.
- z z Venter of D°
- A A Head of the Os Humeri.
- B B Body of D°
- C C Condyles of D°
- D D Head of Radius.

- E. E. Body of Radius.
- F. F. Bases of D°
- G. G. Ulna.
- H. H. Bones of the Carpus.
- I. I. _____ Metacarpus.
- J. J. _____ Phalanges of the Fingers.
- K. K. Venter of the Ilium.
- L. L. Anterior Superior Spinous process of the Ilium.
- M. M. _____ Inferior _____ D°
- N. Symphysis Pubis.
- O. O. Tuberosity of the Ischium.
- P. P. Brun of the Pelvis.
- Q. Q. Foramen Ovale.
- R. R. Head of the Os Femoris.
- S. S. Neck of — D°
- T. T. Trochanter Major of D°
- U. U. Body of D°
- V. V. Condyles of D°
- W. W. Patella.
- X. X. Head of Tibia.
- Y. Y. Body of D°
- Z. Z. Base of D°
- α. Fibula.
- β. Os Calcis.
- γ. γ. Astragalus.
- δ. δ. Os Navicularæ.
- ε. ε. Cuneiform Bones.
- ς. Cuboid Bone.
- η. Metatarsal Bones.
- θ. Phalanges of the Toes.

Back View of the Male Skeleton.



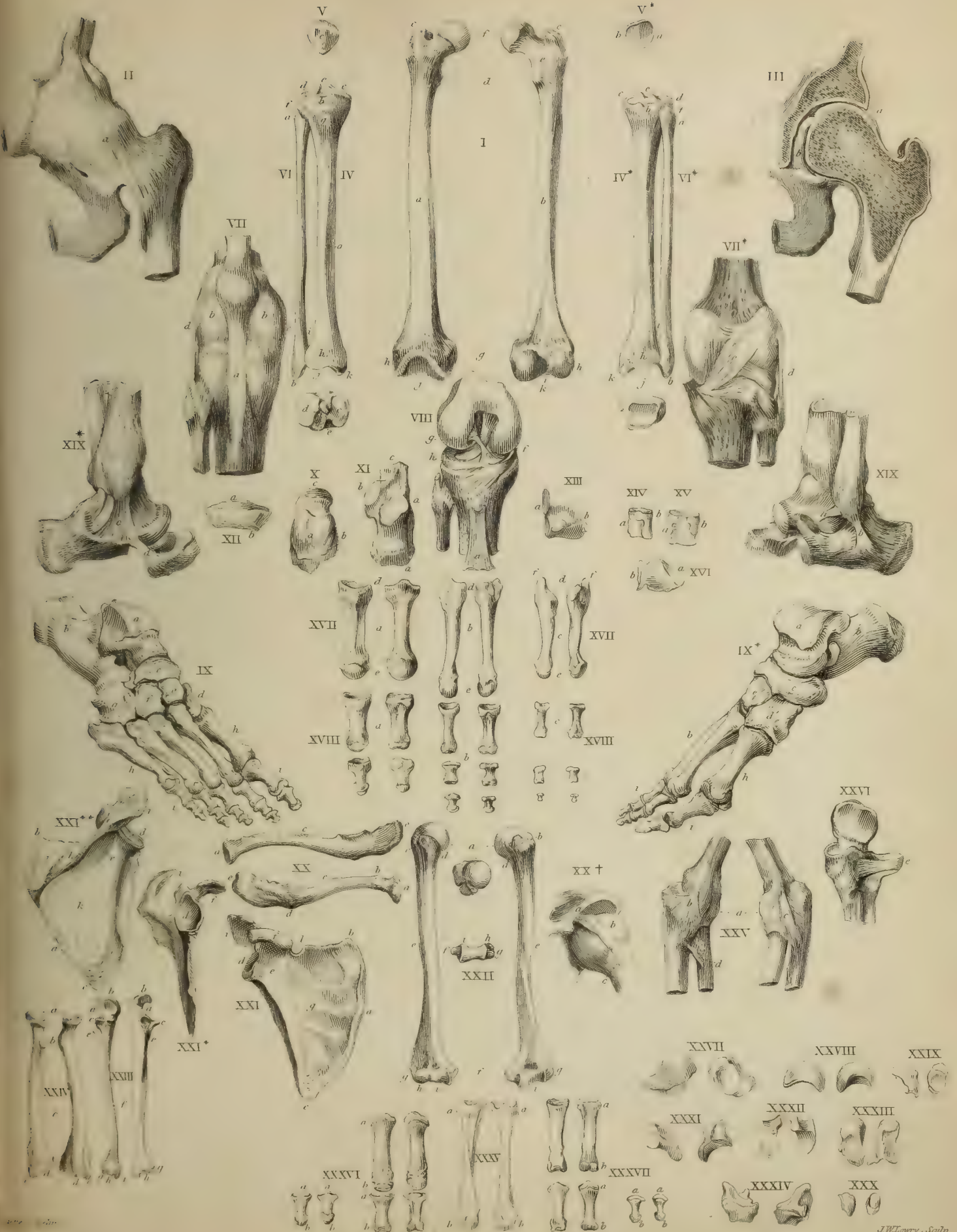
Reference to the Back View of the Male Skeleton.

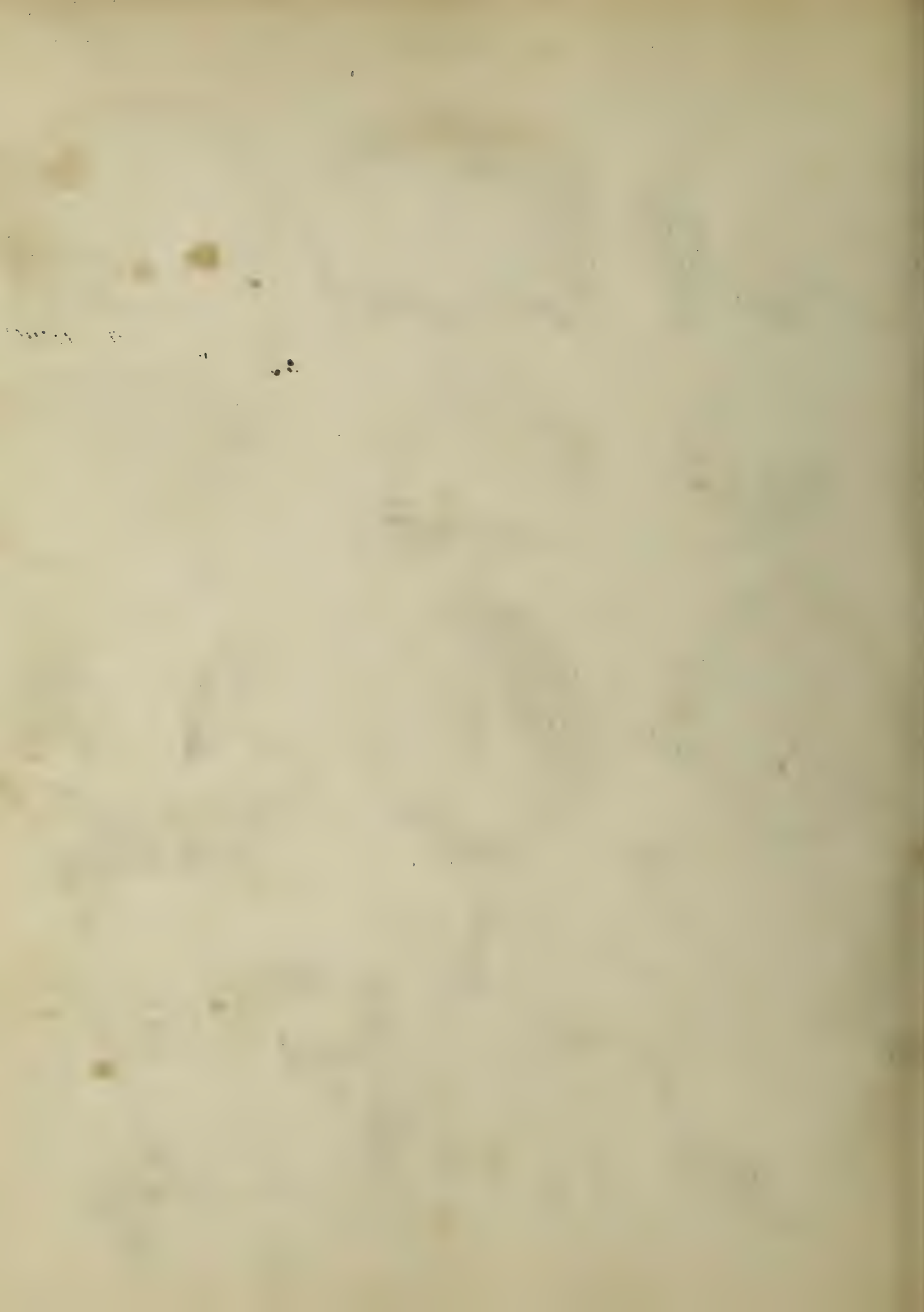


Parietal Bones.
 Sagittal Suture.
 Lambdoidal D^o.
 Os Occipitis.
 Squamous Suture.
 Triangular Sutures, formed by the conjunction of the Mastoid processes of the occipital bone with the parietal.
 Mastoid processes of the Temporal bones.
 Frontal bone.
 Os Mela.
 Malar process of the Temporal bone.
 Os Maxillare Superius.
 Os Maxillare Inferius.
 Teeth.
 Arches of the Cervical Vertebra.
 Arches of the Dorsal Vertebra.
 Arches of the Lumbar Vertebra.
 Os Sacrum.
 Os Coccygis.
 Seven true Ribs.
 Five false Ribs.
 Os Ilii.
 Os Ischii.
 Os Pubis.
 Anterior superior spinous process of Os Ilii.
 Tuberosity of Os Ischii.
 Anvete.
 Costa supra spinata.
 Spine of the Scapula.
 Costa Infra Spinata.
 Crurium Scapulae.
 Cavity of the Glenoid Cavity of the Scapula.
 End of the Os Humeri.
 Head of — D^o.
 External Condyle of — D^o.
 Internal Condyle.
 Common Ulna.
 Head of Ulna.
 Coronoid process of Ulna.
 End of Radius.
 Head of — D^o.
 Head of — D^o.
 Scapulae des
 humeri

S. Os Cuneiforme.
 T. Os Trapezium.
 U. Os Trapezoides.
 V. Os Magnum.
 W. Os Unciforme.
 X.X. Metacarpal Bones supporting the Thumb & Fingers.
 Y.Y. Phalanges of the Thumb & Fingers.
 Z. Os Pisiforme.
 A. Head of the Os Femoris.
 B.B. Cervix Femoris.
 Γ.Γ. Trochanter Major.
 Δ.Δ. Trochanter Minor.
 E.E. Body of Os Femoris.
 Z.Z. External condyle of Femoris.
 H.H. Internal — D^o.
 Θ.Θ. Head of Tibia.
 I.I. Body of — D^o.
 K.K. Base of — D^o.
 Λ.Λ. Internal Malleolus.
 M.M. Head of Fibula.
 N.N. Body of — D^o.
 Ξ.Ξ. External Condyle.
 O.O. Astragalus.
 Π.Π. Os Calcis.
 P.P. Tuberosity of Os Calcis.
 Σ.Σ. Os Naviculare.
 Τ.Τ. Os Cuboides.
 Τ.Τ. Os Cuneiforme Internum.
 Φ.Φ. ——— Medium.
 Χ.Χ. ——— Externum.
 Ψ.Ψ. Metatarsal Bones, supporting the Toes.
 Ω.Ω. Phalanges of the Toes.





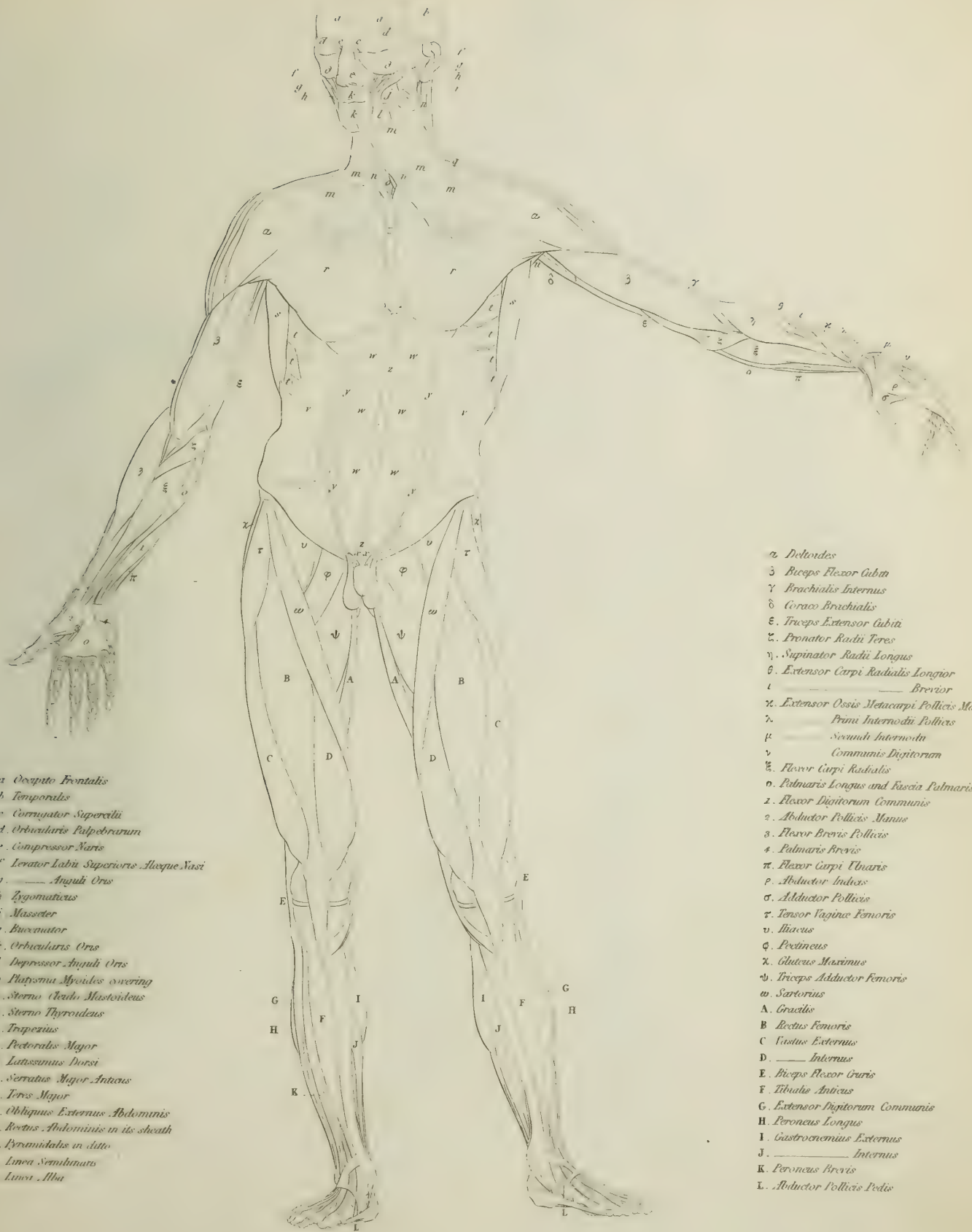




First layer of the Muscles.



W. R. J. W. Levey. sculp.

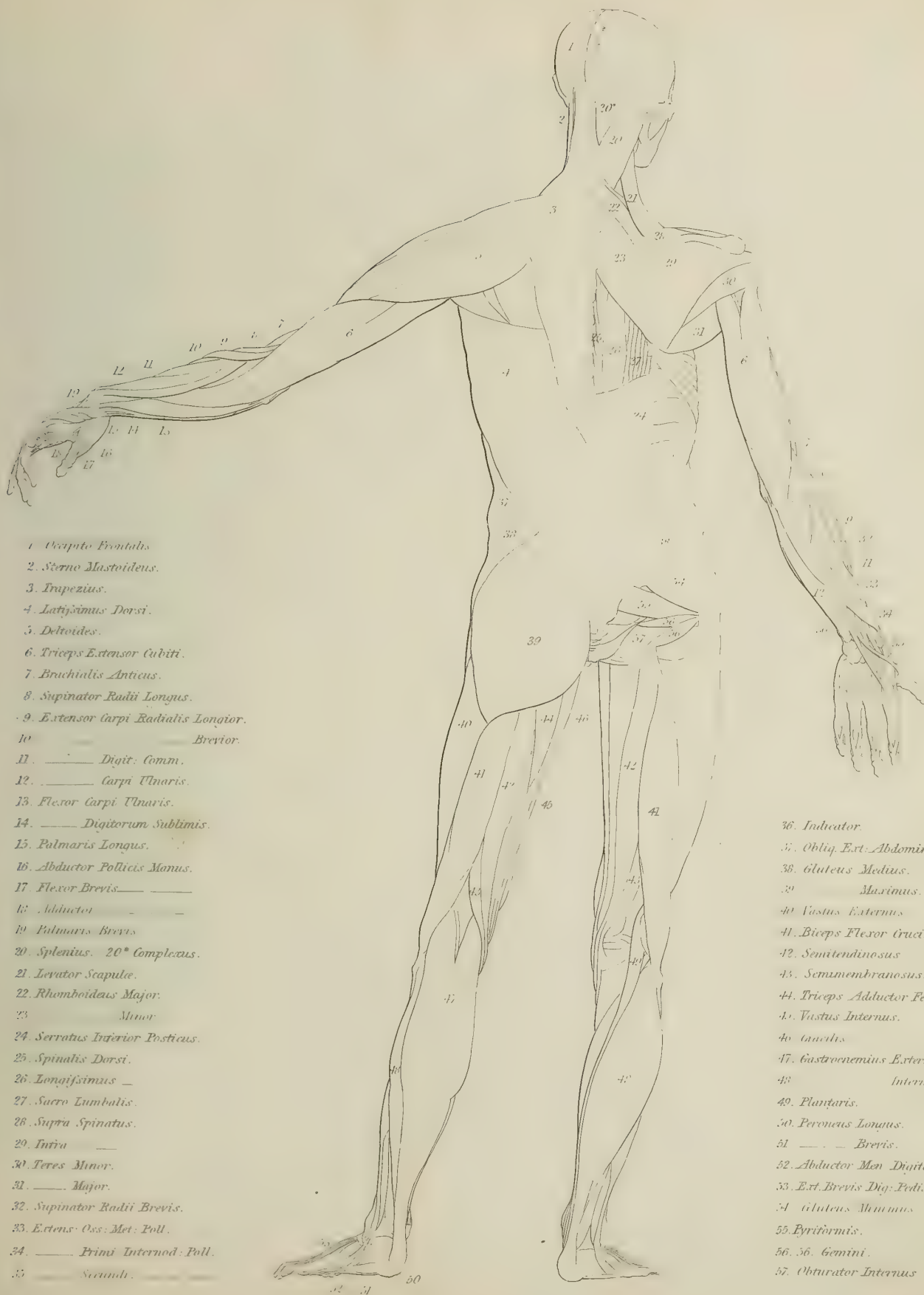


- a Occipito Frontalis
- b Temporalis
- c Corrugator Supercilii
- d Orbicularis Palpebrarum
- e Compressor Nasis
- f Levator Labii Superioris Flexor Nasi
- g ———— Anguli Oris
- h Zygomaticus
- i Masseter
- j Buccinator
- k Orbicularis Oris
- l Depressor Anguli Oris
- m Pterygium Myoides covering
- n Sterno (Cleid) Mastoideus
- o Sterno Thyroideus
- q Trapezius
- r Pectoralis Major
- s Latissimus Dorsi
- t Serratus Major Anticus
- u Teres Major
- v Obliquus Externus Abdominis
- w Rectus Abdominis in its sheath
- x Pyramidalis in ditto
- y Linea Semilunaris
- z Linea Alba

- α Deltoides
- β Biceps Flexor Cubiti
- γ Brachialis Internus
- δ Coraco Brachialis
- ε Triceps Extensor Cubiti
- ζ Pronator Radii Teres
- η Supinator Radii Longus
- θ Extensor Carpi Radialis Longior
- ι ———— Brevior
- κ Extensor Ossis Metacarpi Pollicis Manus
- λ ———— Primi Internodi Pollicis
- μ ———— Secundi Internodi
- ν ———— Communis Digitorum
- ξ Flexor Carpi Radialis
- ο Palmaris Longus and Fascia Pulmaris
- 2 Flexor Digitorum Communis
- 3 Abductor Pollicis Manus
- 3 Flexor Brevis Pollicis
- 4 Palmaris Brevis
- π Flexor Carpi Ulnaris
- ρ Abductor Indicis
- σ Adductor Pollicis
- τ Tensor Vaginis Femoris
- υ Iliacus
- φ Pectineus
- χ Gluteus Maximus
- ψ Triceps Adductor Femoris
- ω Sartorius
- A Gracilis
- B Rectus Femoris
- C Vastus Externus
- D ———— Internus
- E Biceps Flexor Cruris
- F Tibialis Anticus
- G Extensor Digitorum Communis
- H Peroneus Longus
- I Gastrocnemius Externus
- J ———— Internus
- K Peroneus Brevis
- L Abductor Pollicis Pedis

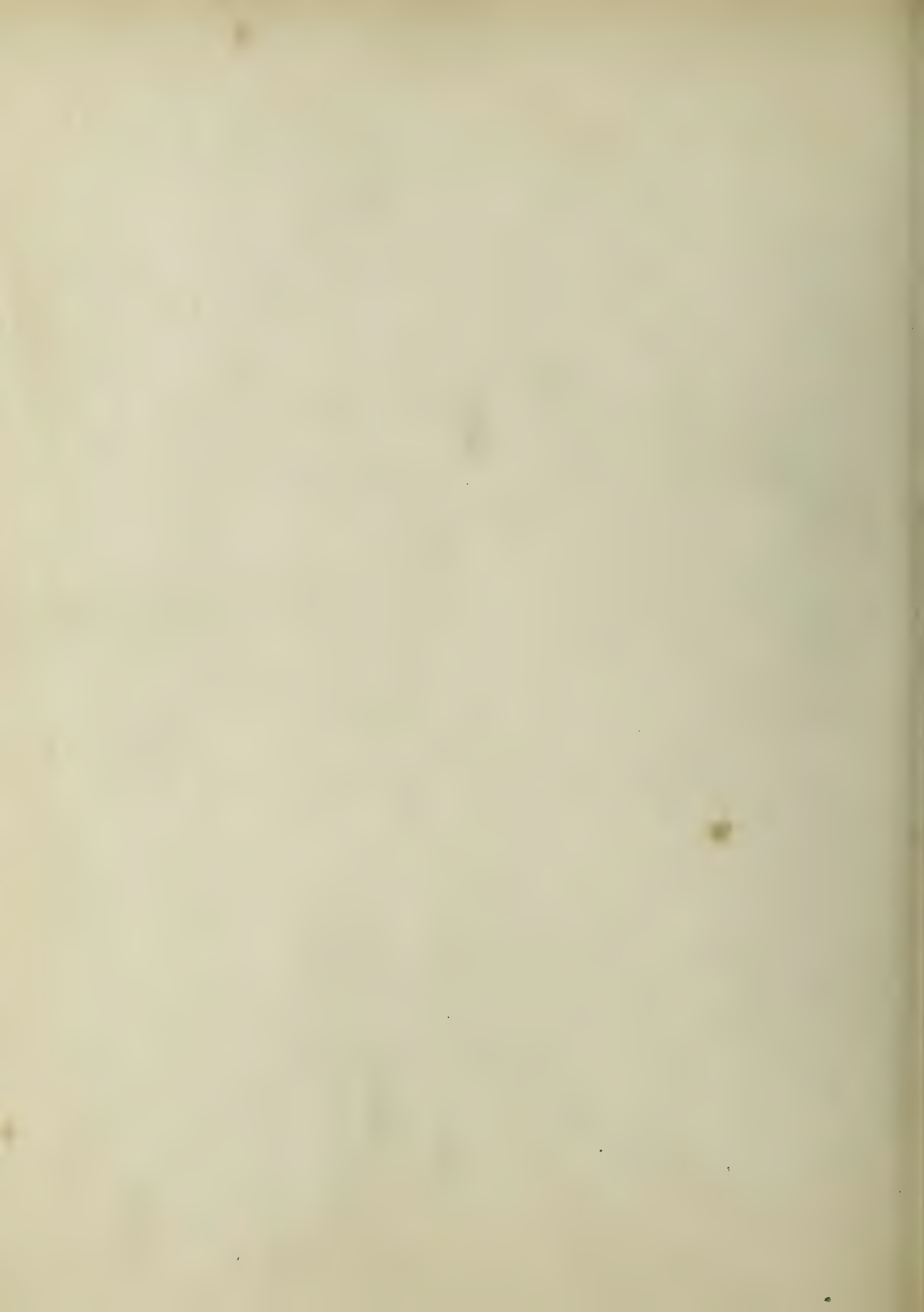
Posterior view of the first & second layer of the Muscles.

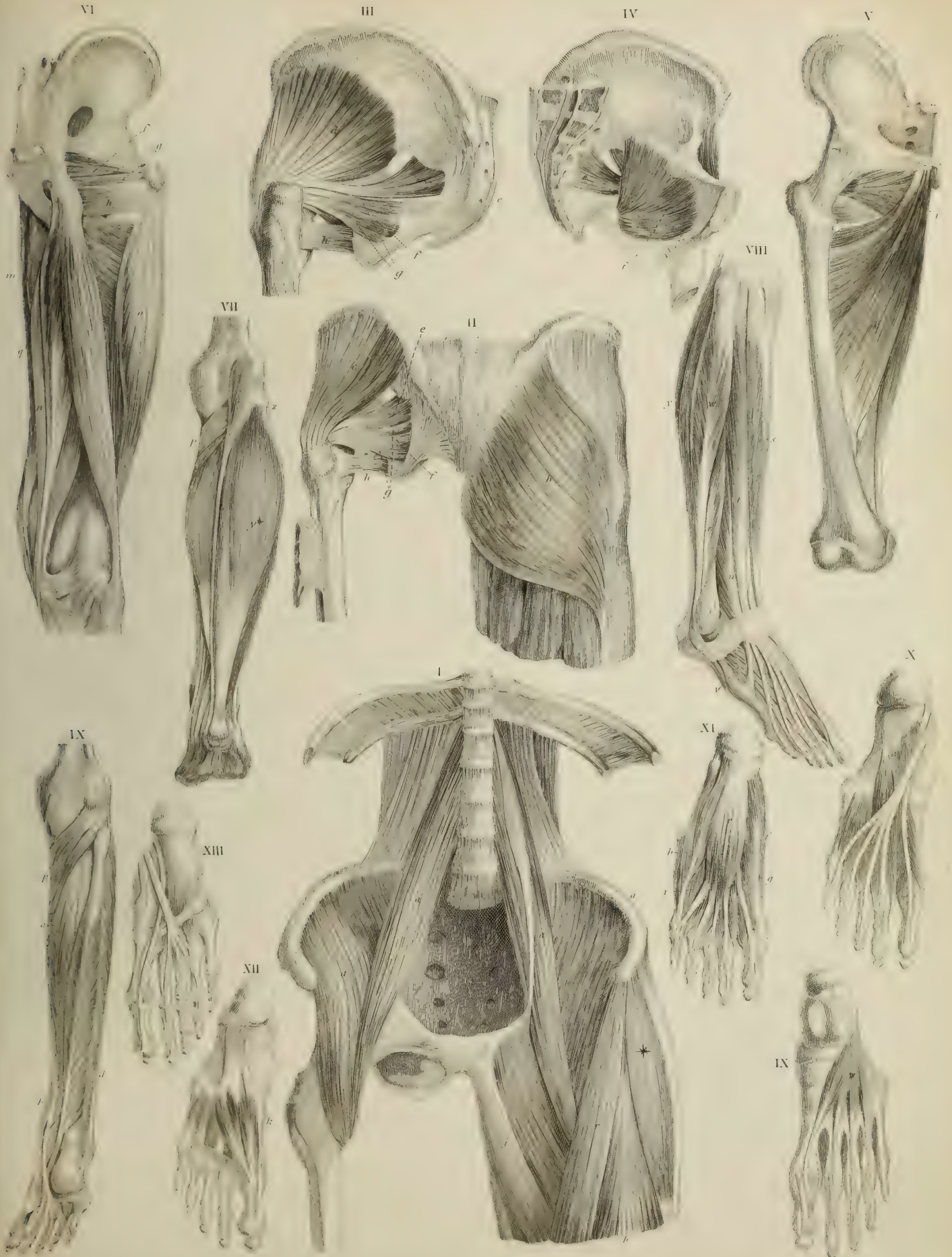




- 1. *Capito Frontalis.*
- 2. *Sterno Mastoideus.*
- 3. *Trapezius.*
- 4. *Latissimus Dorsi.*
- 5. *Deltoides.*
- 6. *Triceps Extensor Cubiti.*
- 7. *Brachialis Anticus.*
- 8. *Supinator Radii Longus.*
- 9. *Extensor Carpi Radialis Longior.*
- 10. ———— *Brevior.*
- 11. ———— *Digit. Comin.*
- 12. ———— *Carpi Ulnaris.*
- 13. *Flexor Carpi Ulnaris.*
- 14. ———— *Digitorum Sublimis.*
- 15. *Palmaris Longus.*
- 16. *Abductor Pollicis Manus.*
- 17. *Flexor Brevis* ————
- 18. *Adductor* ————
- 19. *Palmaris Brevis.*
- 20. *Splenius. 20* Complexus.*
- 21. *Levator Scapule.*
- 22. *Rhomboides Major.*
- 23. ———— *Minor.*
- 24. *Serratus Inferior Posticus.*
- 25. *Spinalis Dorsi.*
- 26. *Longissimus* —
- 27. *Sacro Lumbalis.*
- 28. *Supra Spinatus.*
- 29. *Intra* ————
- 30. *Teres Minor.*
- 31. ———— *Major.*
- 32. *Supinator Radii Brevis.*
- 33. *Extens. Oss. Met. Poll.*
- 34. ———— *Primi Internod. Poll.*
- 35. ———— *Secundi.*

- 36. *Indicator.*
- 37. *Obliq. Ext. Abdominis.*
- 38. *Gluteus Medius.*
- 39. ———— *Maximus.*
- 40. *Vastus Externus.*
- 41. *Biceps Flexor Crucis.*
- 42. *Semitendinosus.*
- 43. *Semimembranosus.*
- 44. *Triceps Adductor Femoris.*
- 45. *Vastus Internus.*
- 46. *Tend. Achilles.*
- 47. *Gastrocnemius Externus.*
- 48. ———— *Internus.*
- 49. *Plantaris.*
- 50. *Peroneus Longus.*
- 51. ———— *Brevis.*
- 52. *Abductor Men. Digiti.*
- 53. *Ext. Brevis Dig. Pedis.*
- 54. *Gluteus Minimus.*
- 55. *Pyritiformis.*
- 56. 56. *Gemini.*
- 57. *Obturator Internus.*





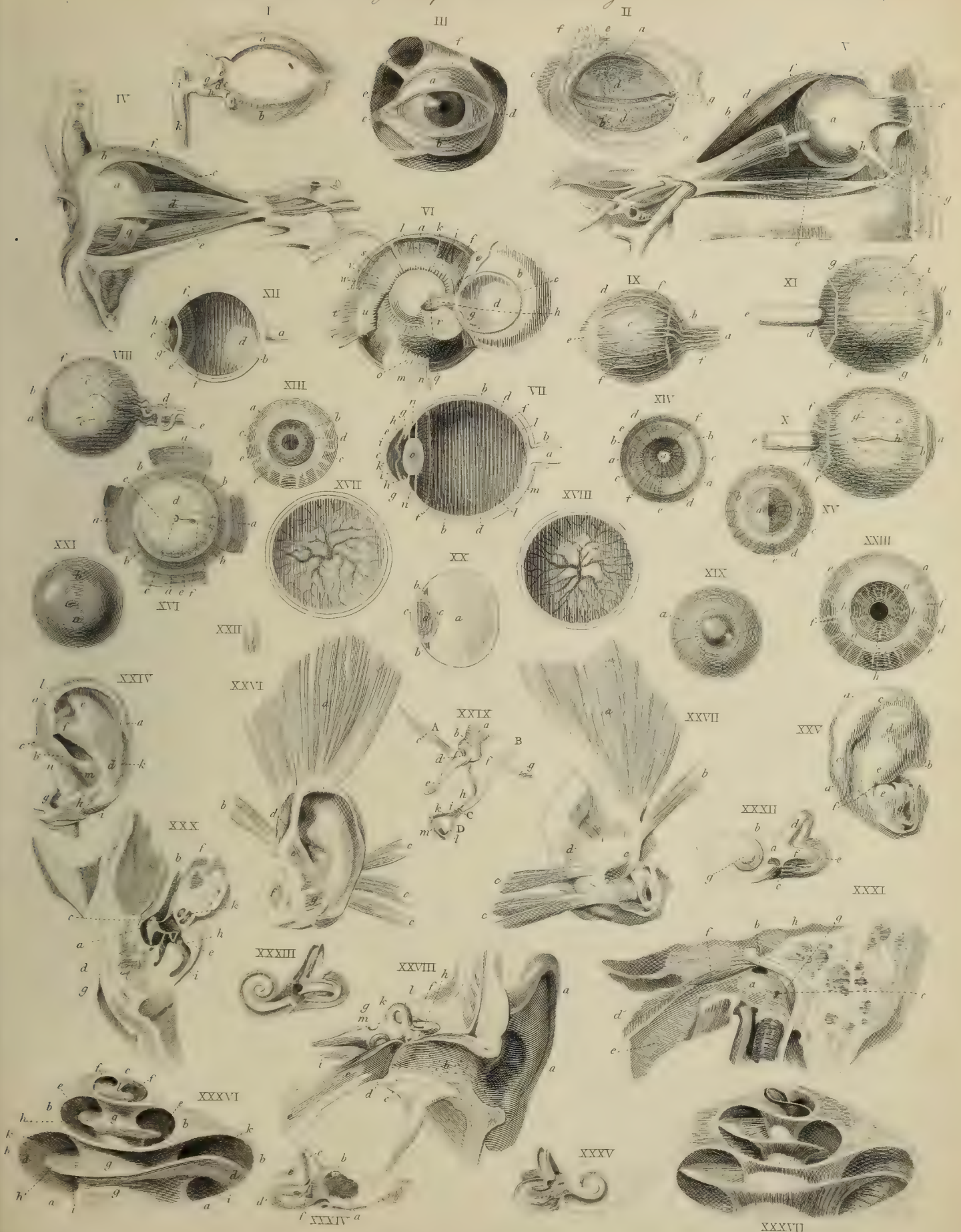


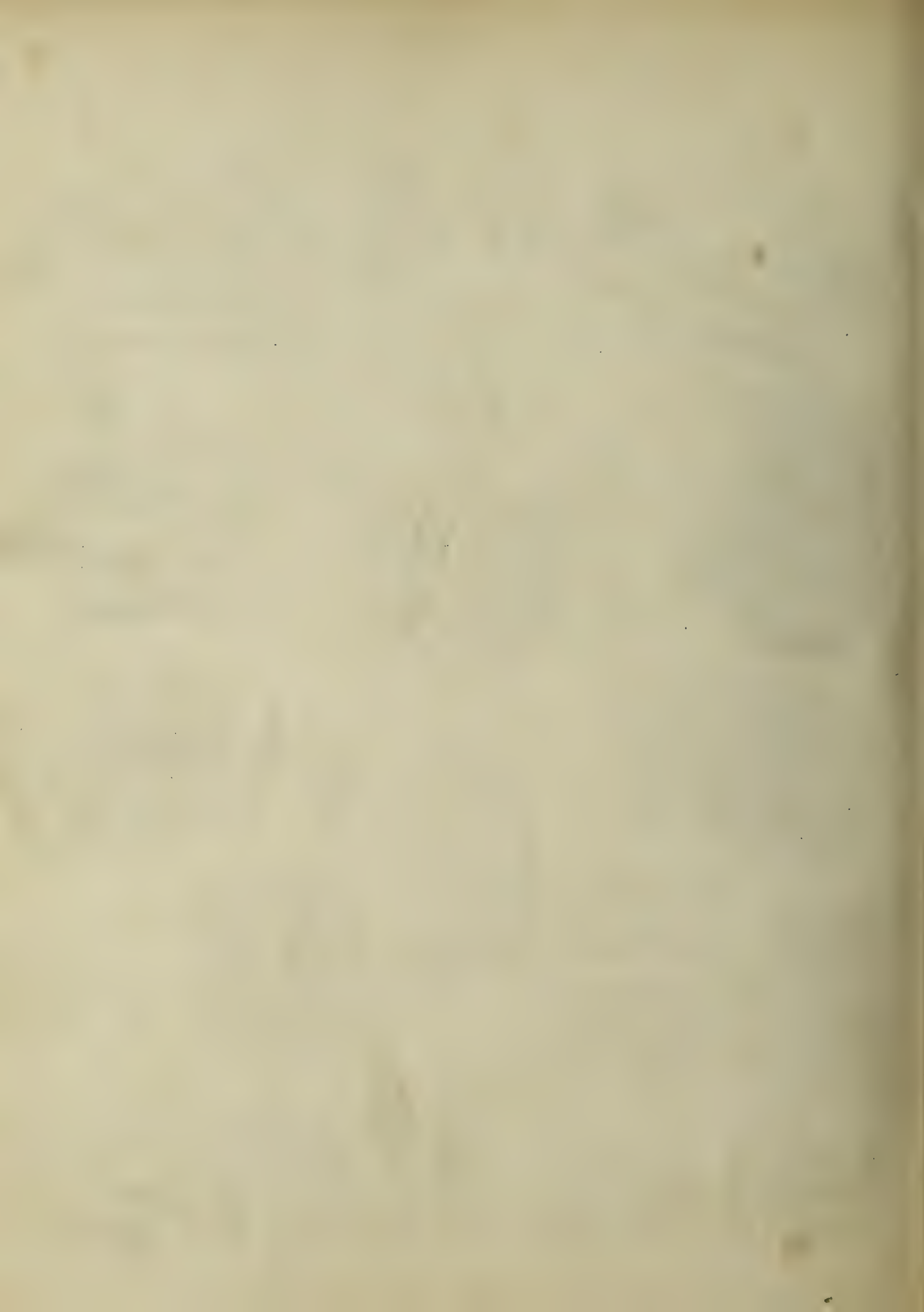




ANATOMY.

Organs of Vision & Hearing.





Organs of Smell, Taste & Touch.

